

RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: 4K Set Top Box

Trade Mark: Homatics

Test Model: SX6BHET

FCC ID: 2AOVU-SX6BHET

Environmental Conditions

Temperature:	23.4℃
Relative Humidity:	49%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth

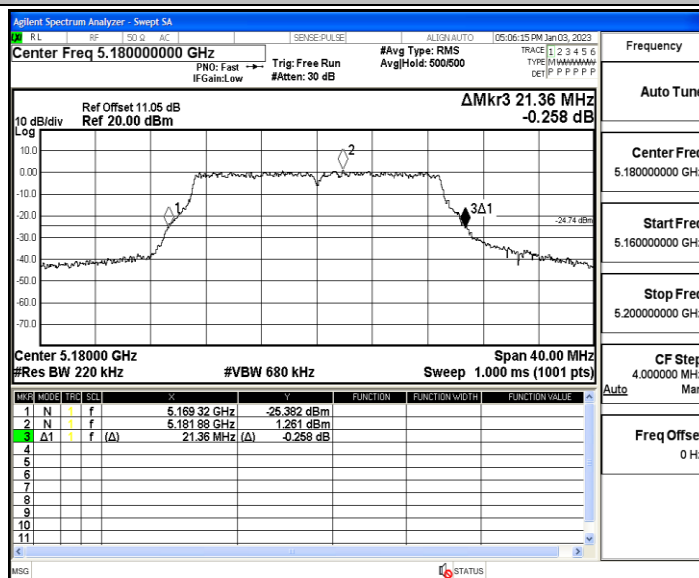
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.360	5169.320	5190.680	---	---
	Ant2	5180	21.440	5169.280	5190.720	---	---
	Ant1	5200	21.520	5189.280	5210.800	---	---
	Ant2	5200	21.320	5189.400	5210.720	---	---
	Ant1	5240	21.360	5229.360	5250.720	---	---
	Ant2	5240	21.520	5229.240	5250.760	---	---
11N20MIMO	Ant1	5180	21.320	5169.400	5190.720	---	---
	Ant2	5180	21.320	5169.360	5190.680	---	---
	Ant1	5200	21.240	5189.400	5210.640	---	---
	Ant2	5200	21.480	5189.320	5210.800	---	---
	Ant1	5240	21.520	5229.280	5250.800	---	---
	Ant2	5240	21.520	5229.240	5250.760	---	---
11N40MIMO	Ant1	5190	39.760	5170.240	5210.000	---	---
	Ant2	5190	39.760	5170.240	5210.000	---	---
	Ant1	5230	39.840	5210.080	5249.920	---	---
	Ant2	5230	39.680	5210.160	5249.840	---	---
11AC20MIMO	Ant1	5180	21.520	5169.240	5190.760	---	---
	Ant2	5180	21.480	5169.280	5190.760	---	---
	Ant1	5200	21.600	5189.200	5210.800	---	---
	Ant2	5200	21.640	5189.160	5210.800	---	---
	Ant1	5240	21.360	5229.320	5250.680	---	---
	Ant2	5240	21.400	5229.200	5250.600	---	---
11AC40MIMO	Ant1	5190	40.160	5170.000	5210.160	---	---
	Ant2	5190	40.240	5170.000	5210.240	---	---
	Ant1	5230	40.080	5210.000	5250.080	---	---

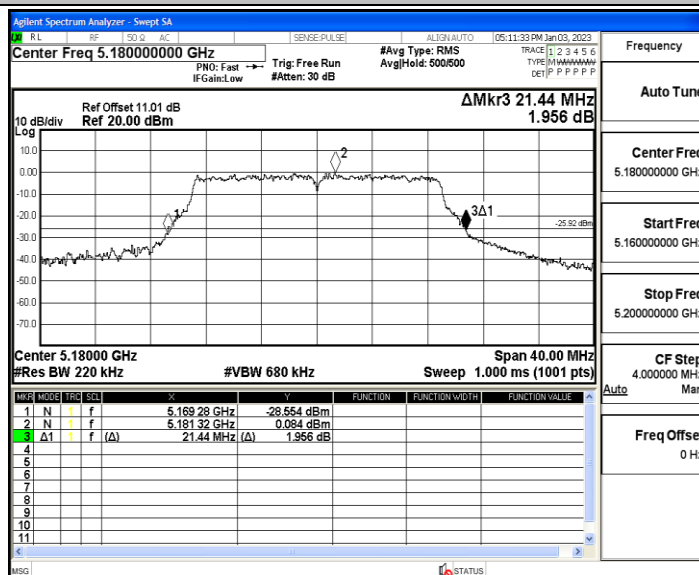
	Ant2	5230	40.080	5210.000	5250.080	---	---
11AC80MIMO	Ant1	5210	81.280	5169.680	5250.960	---	---
	Ant2	5210	81.600	5169.680	5251.280	---	---
11AX20MIMO	Ant1	5180	21.240	5169.520	5190.760	---	---
	Ant2	5180	21.320	5169.360	5190.680	---	---
	Ant1	5200	21.480	5189.200	5210.680	---	---
	Ant2	5200	21.520	5189.280	5210.800	---	---
	Ant1	5240	21.440	5229.200	5250.640	---	---
	Ant2	5240	21.440	5229.240	5250.680	---	---
11AX40MIMO	Ant1	5190	39.840	5170.000	5209.840	---	---
	Ant2	5190	39.760	5170.160	5209.920	---	---
	Ant1	5230	39.760	5210.160	5249.920	---	---
	Ant2	5230	39.840	5210.160	5250.000	---	---
11AX80MIMO	Ant1	5210	81.120	5169.680	5250.800	---	---
	Ant2	5210	81.440	5169.360	5250.800	---	---

Test Graphs

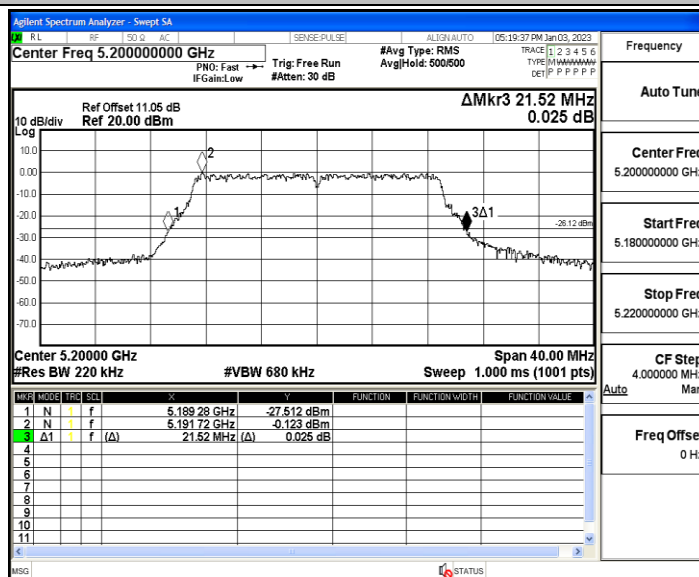
11A_Ant1_5180



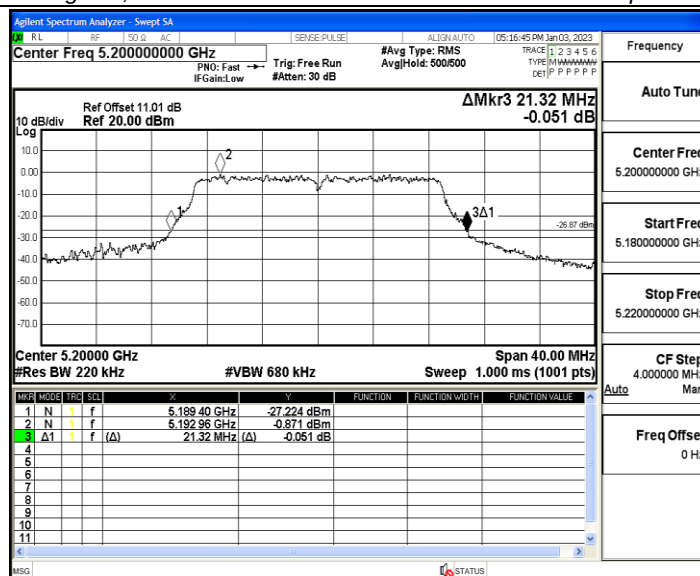
11A_Ant2_5180



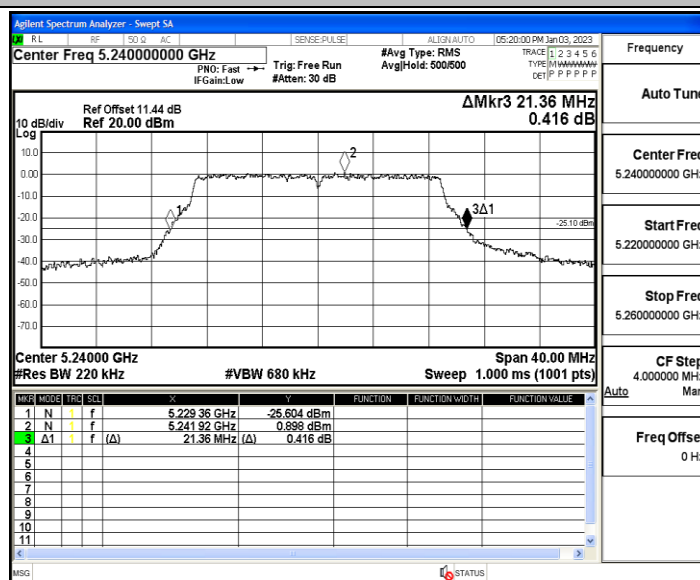
11A_Ant1_5200



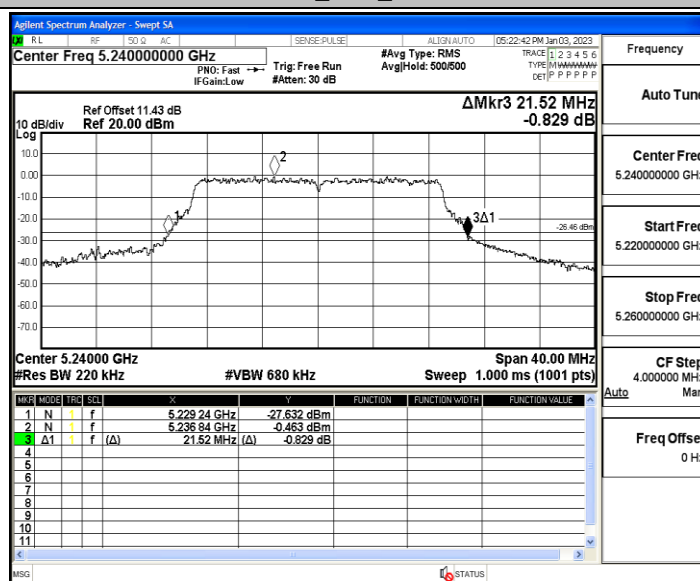
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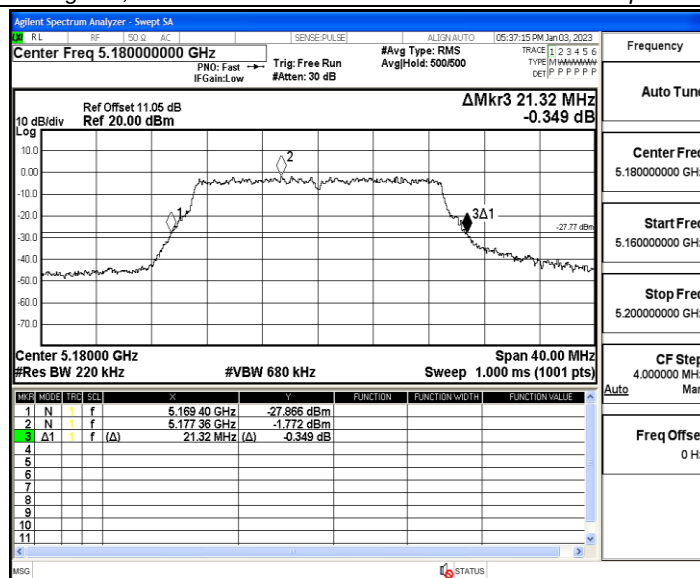
11A_Ant1_5240



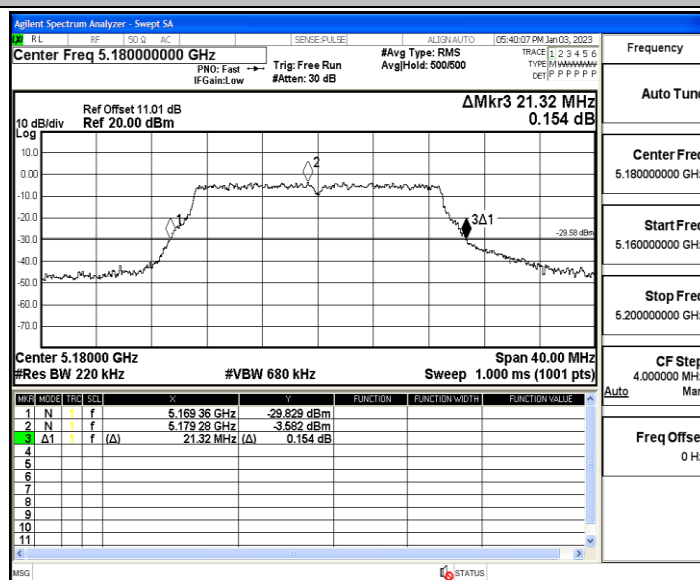
11A_Ant2_5240



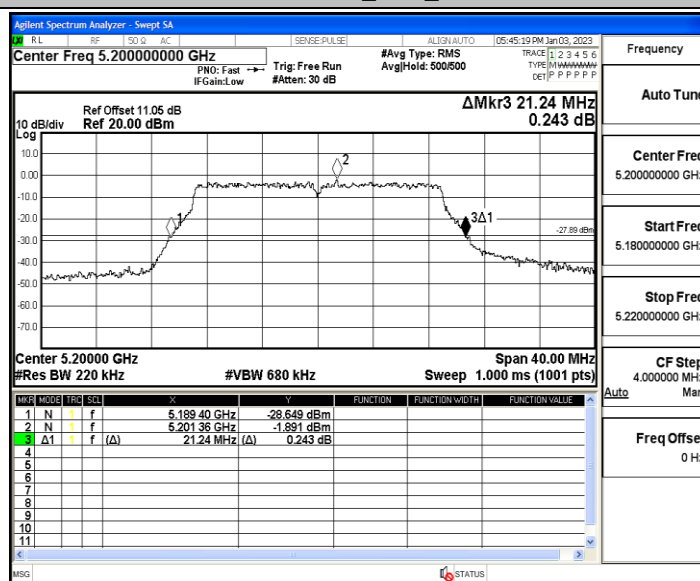
11N20MIMO_Ant1_5180



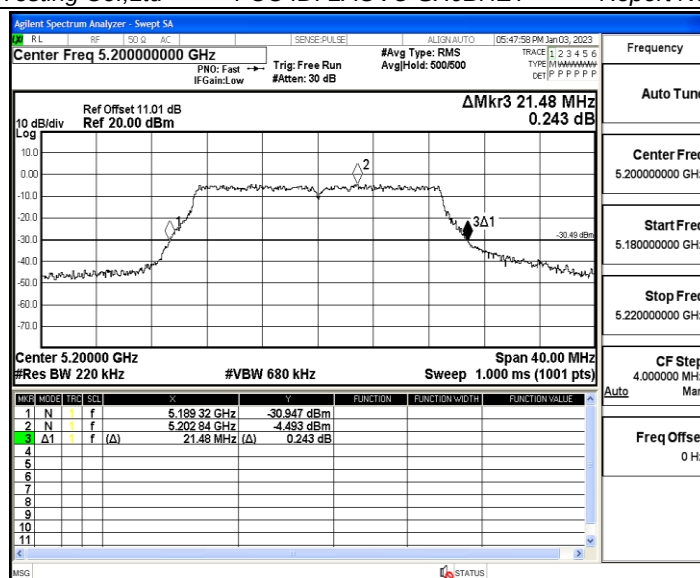
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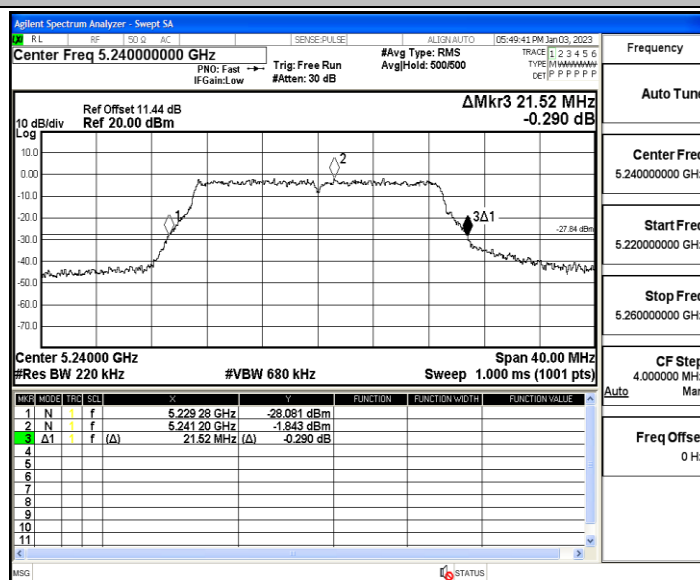
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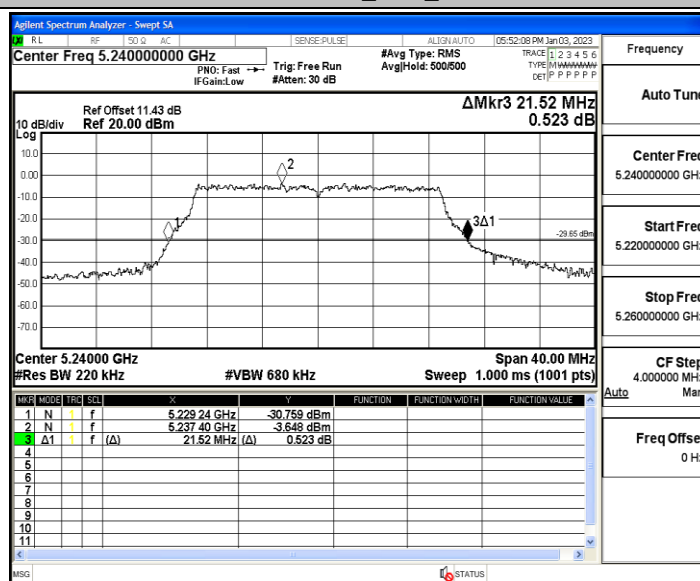
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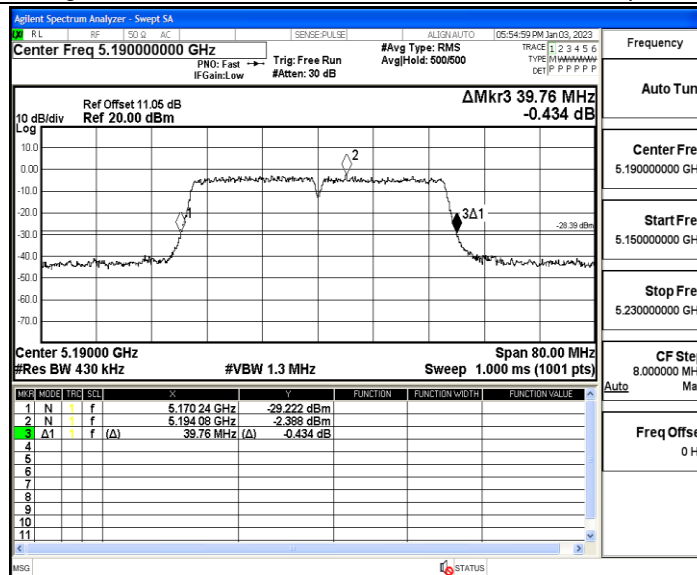
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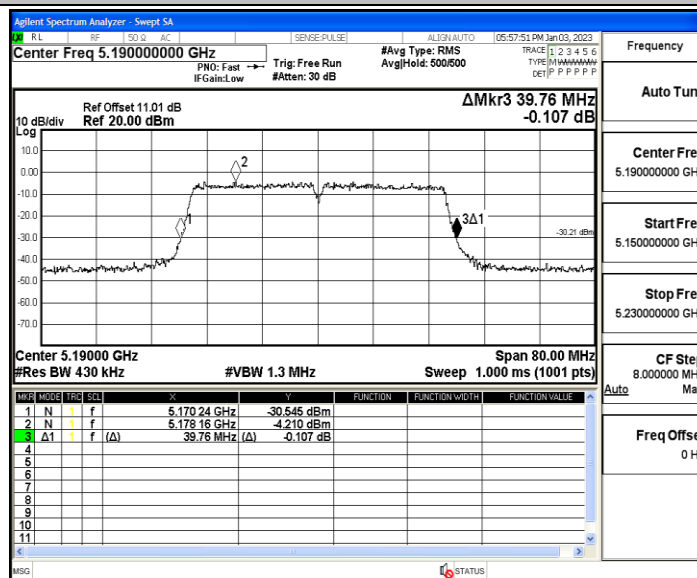
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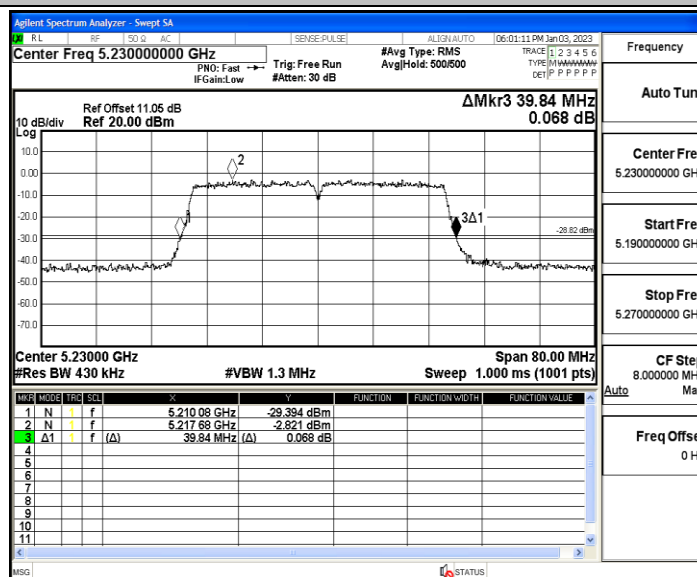
11N40MIMO_Ant1_5190



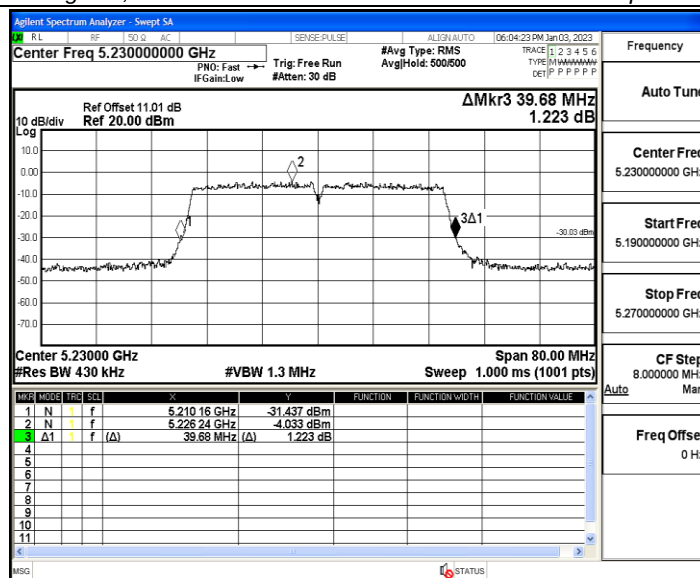
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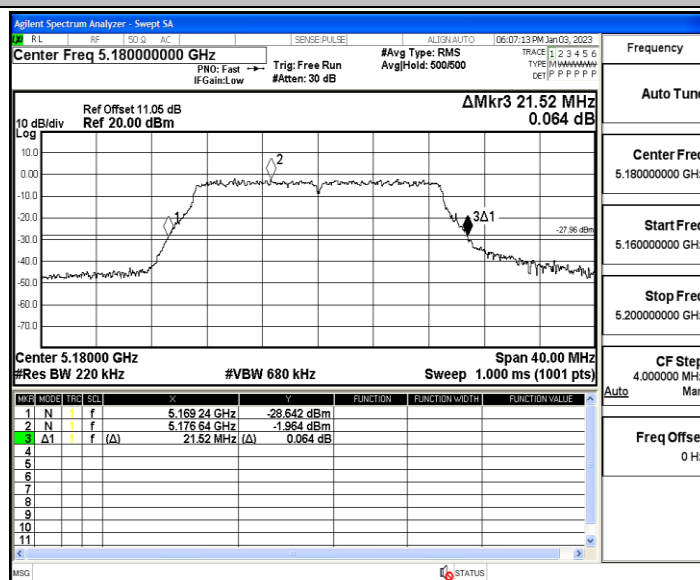
11N40MIMO_Ant1_5230



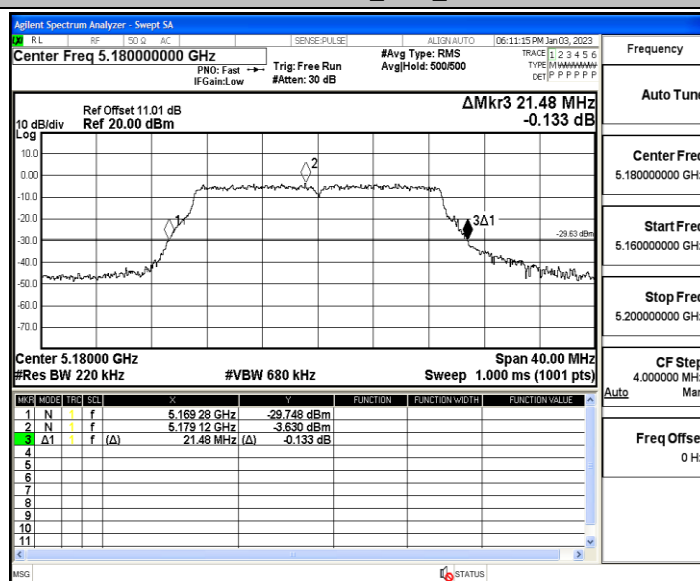
11N40MIMO_Ant2_5230



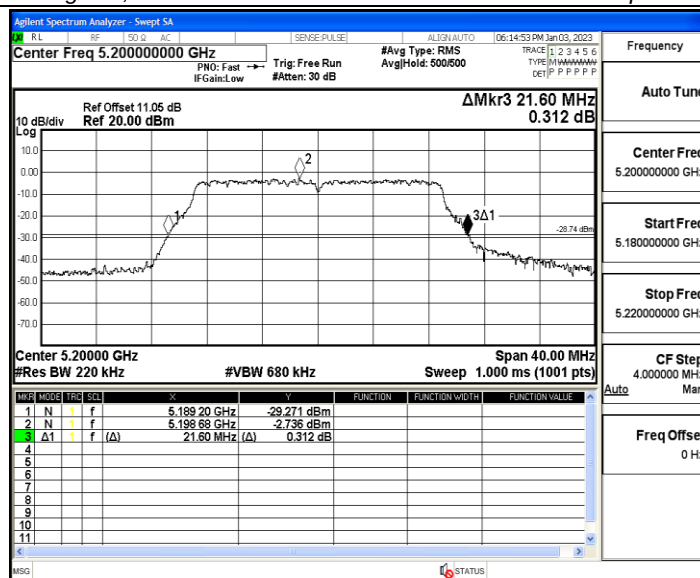
11AC20MIMO_Ant1_5180



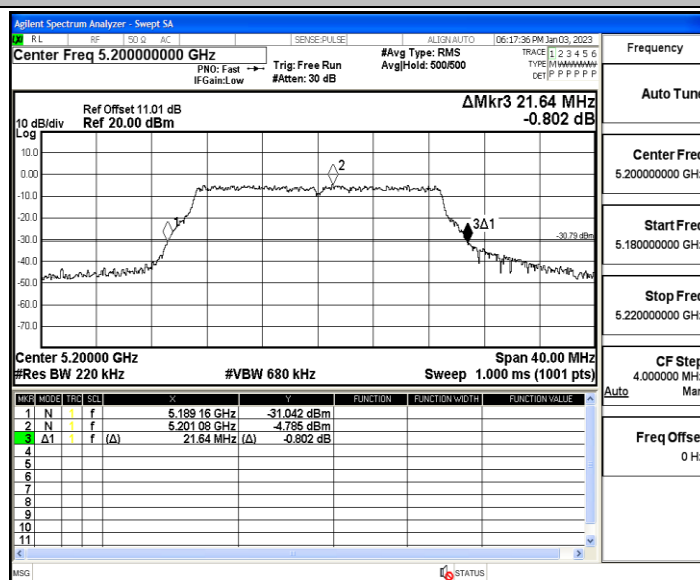
11AC20MIMO_Ant2_5180



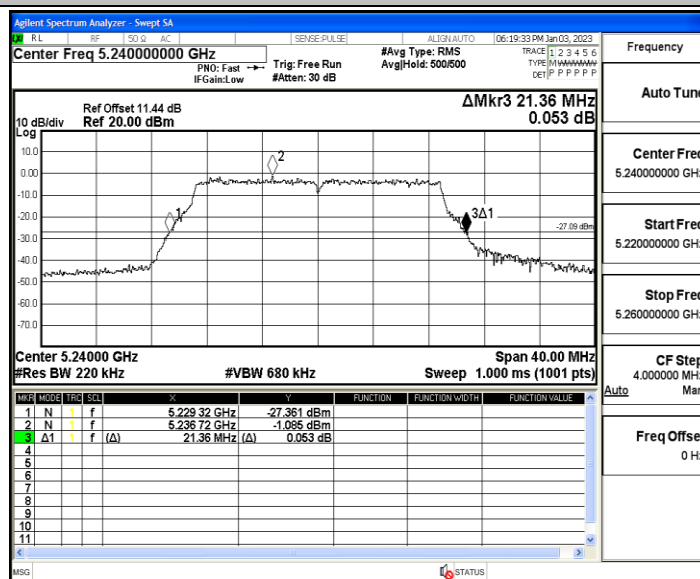
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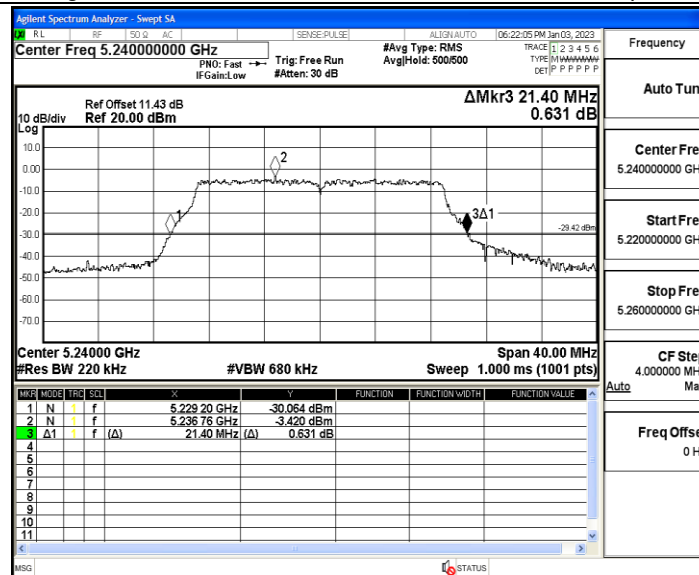
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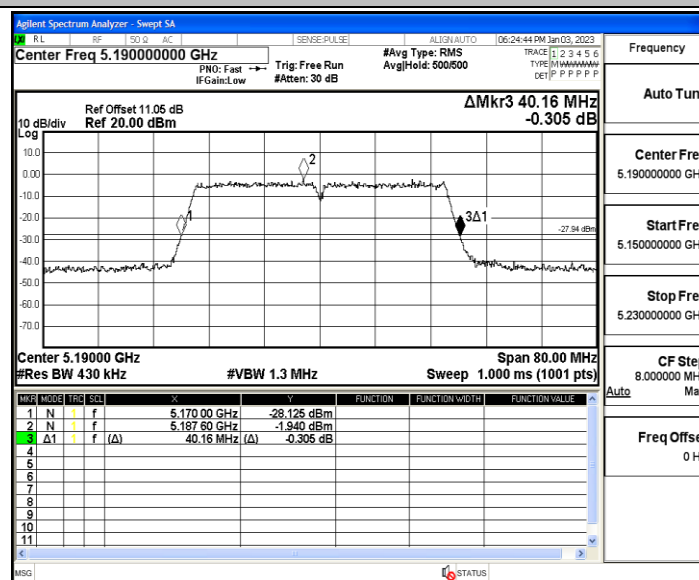
11AC20MIMO_Ant1_5240



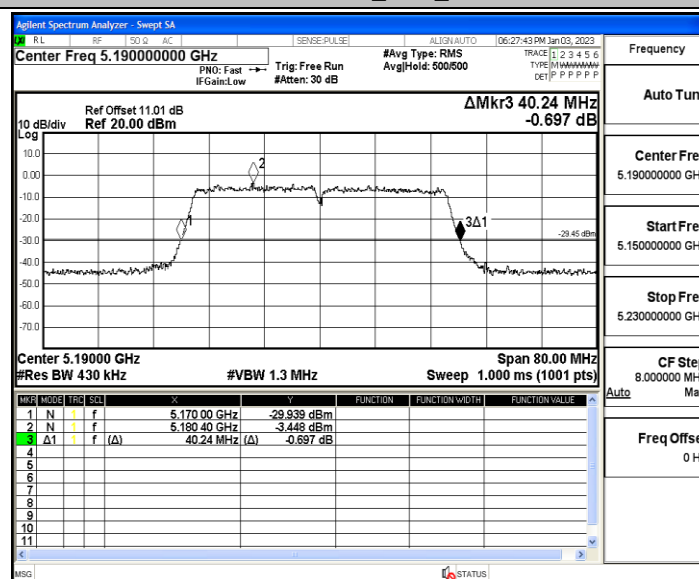
11AC20MIMO_Ant2_5240



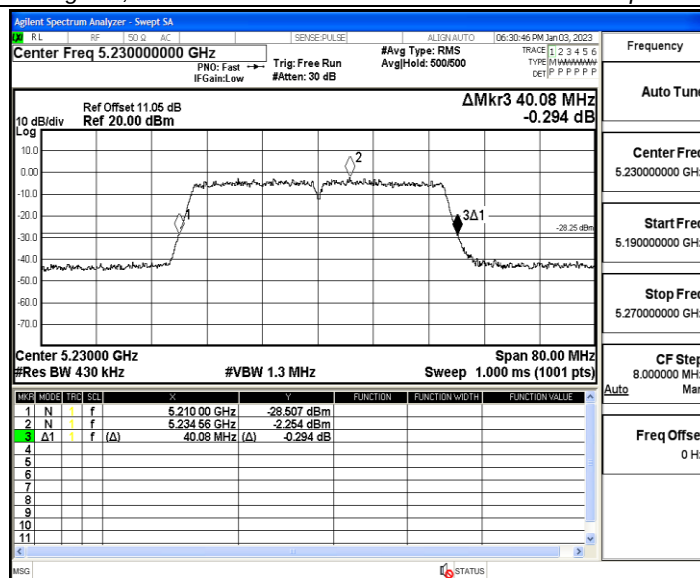
11AC40MIMO_Ant1_5190



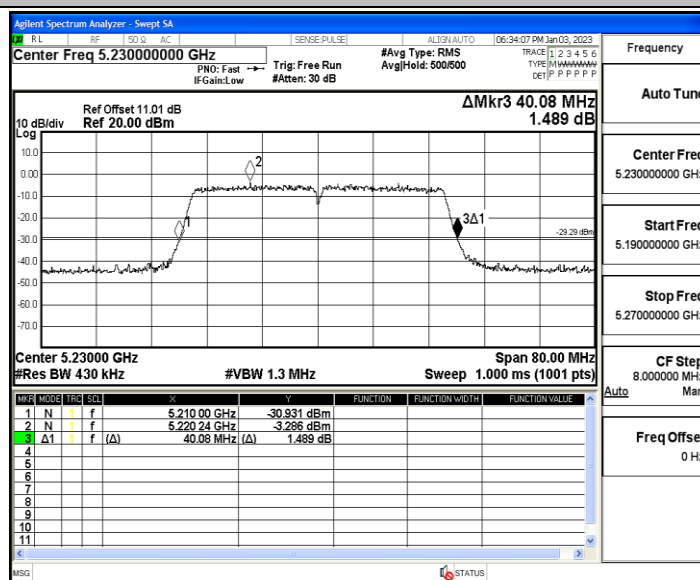
11AC40MIMO_Ant2_5190



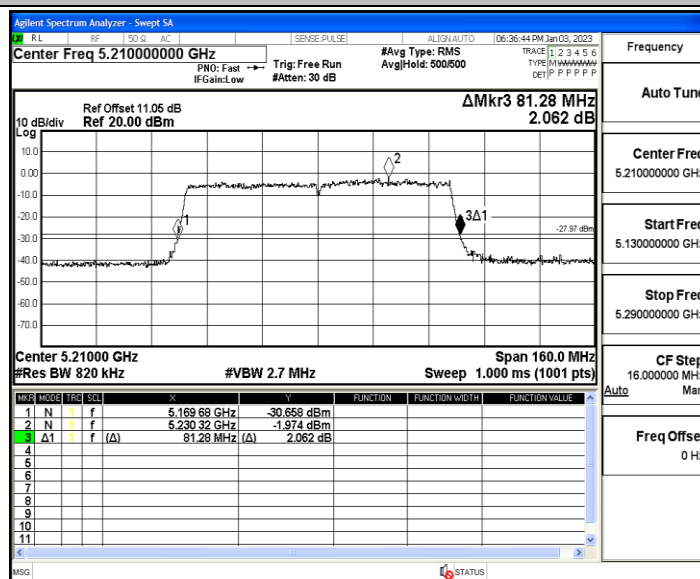
11AC40MIMO_Ant1_5230



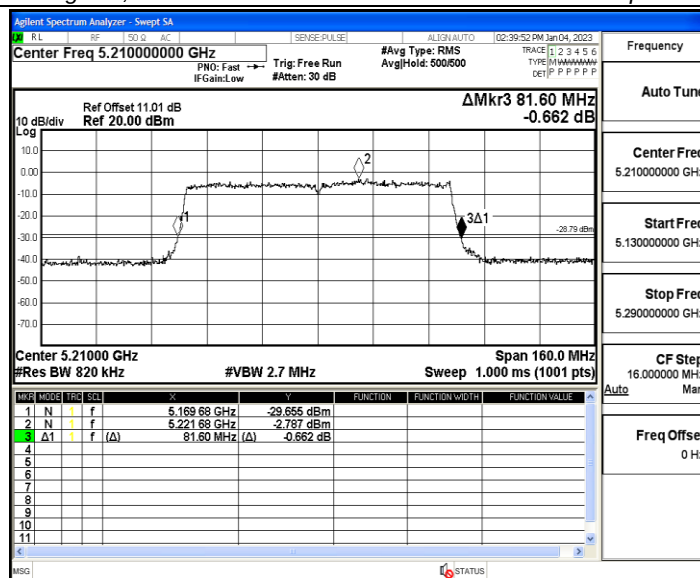
11AC40MIMO_Ant2_5230



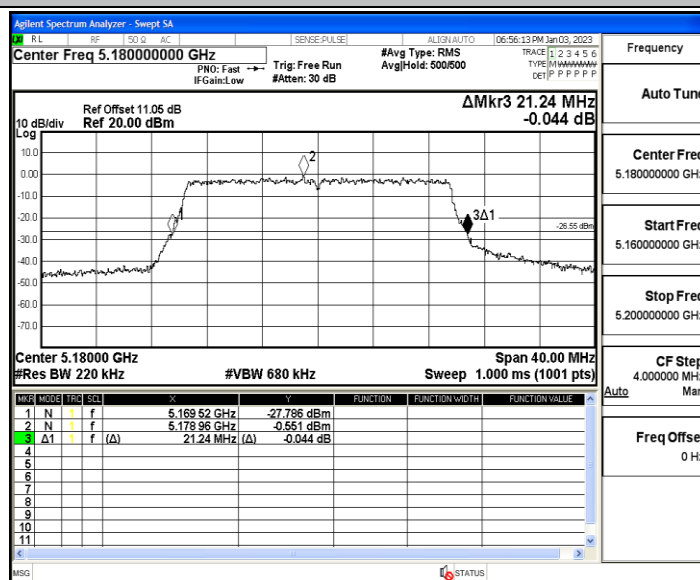
11AC80MIMO_Ant1_5210



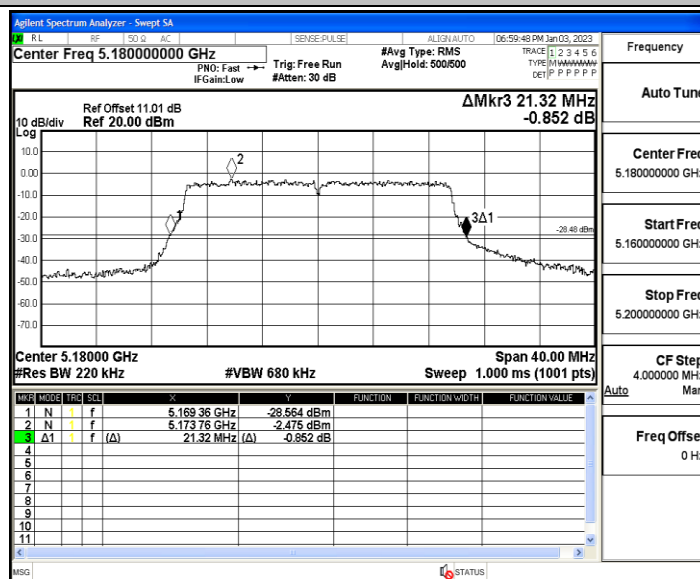
11AC80MIMO_Ant2_5210



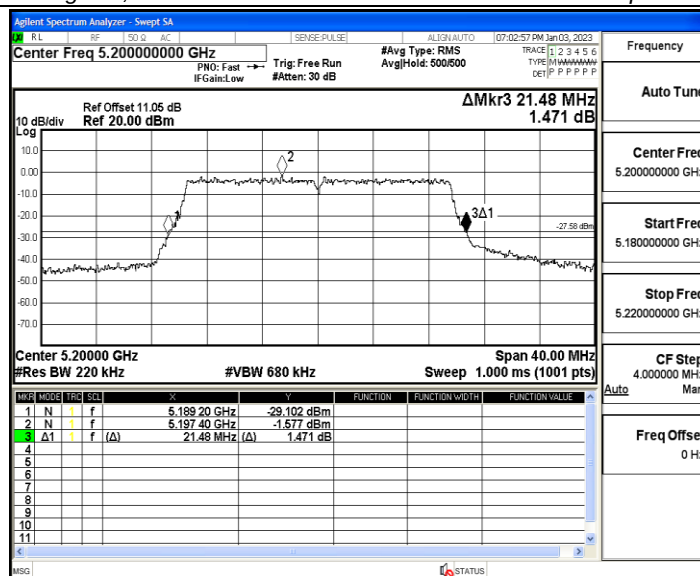
11AX20MIMO_Ant1_5180



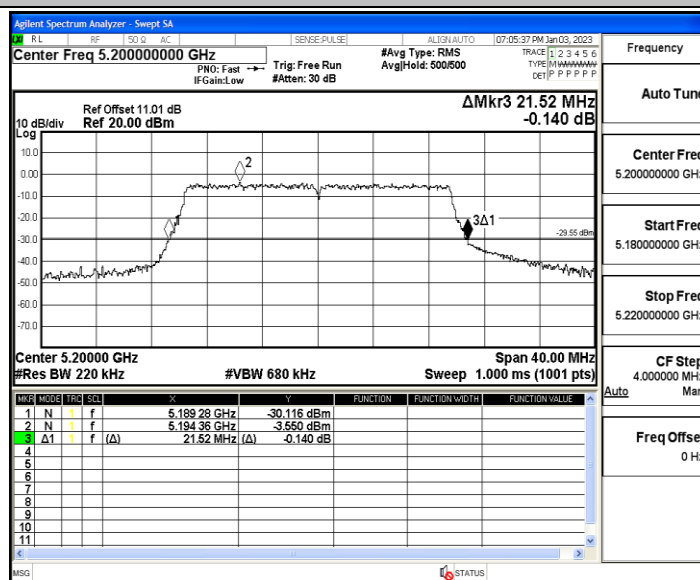
11AX20MIMO_Ant2_5180



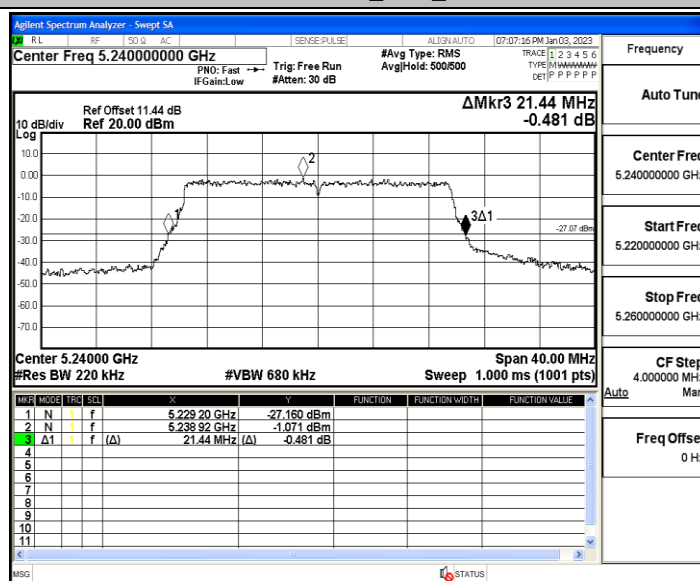
11AX20MIMO_Ant1_5200



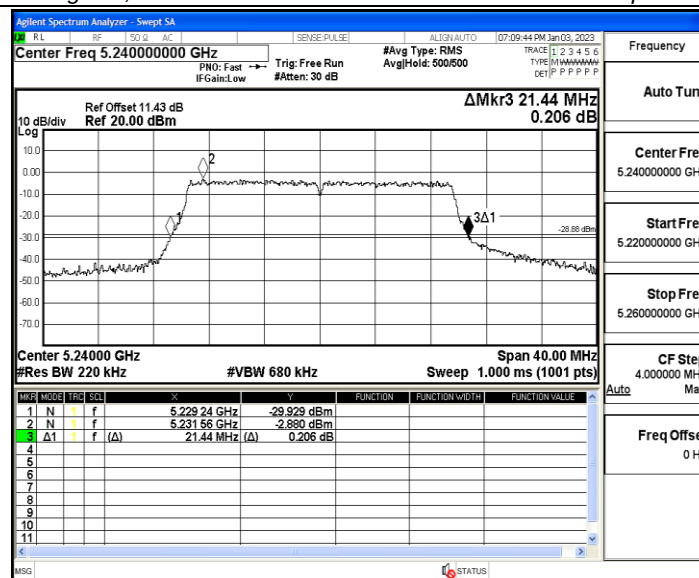
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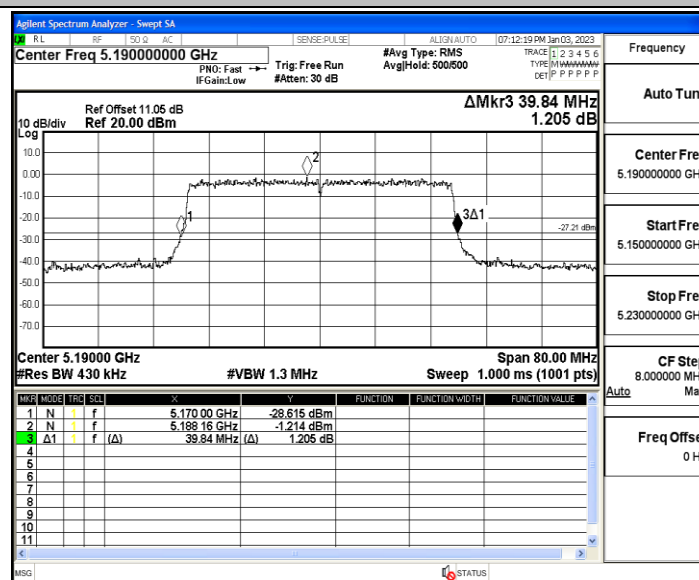
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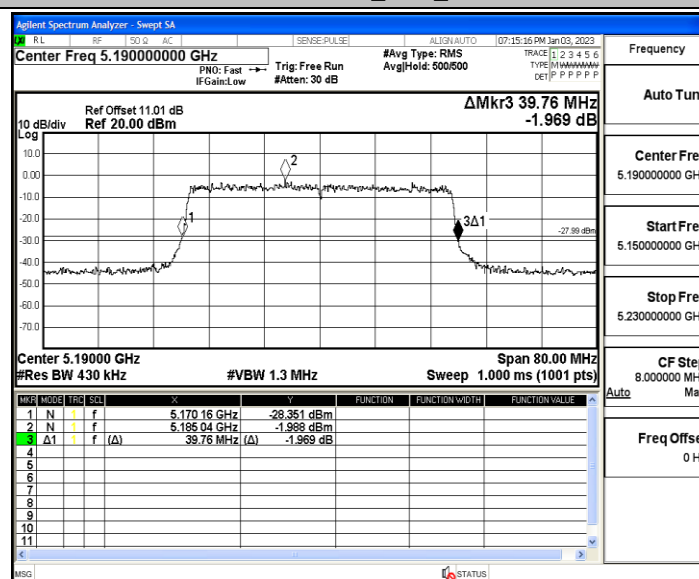
11AX20MIMO_Ant2_5240



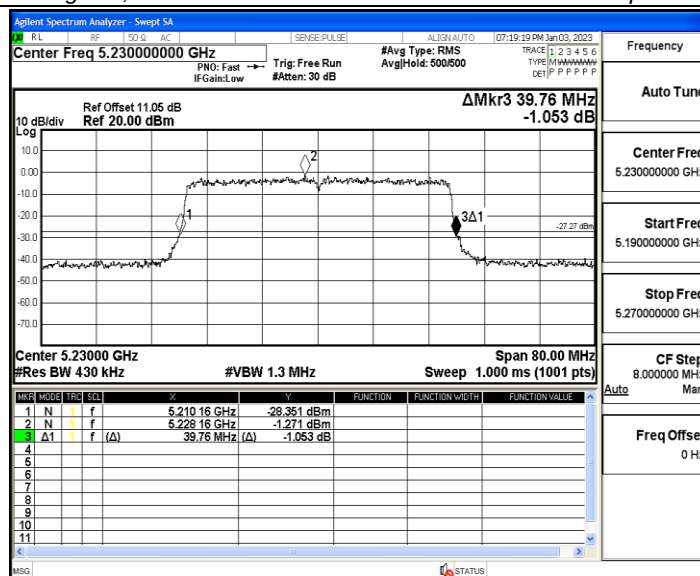
11AX40MIMO_Ant1_5190



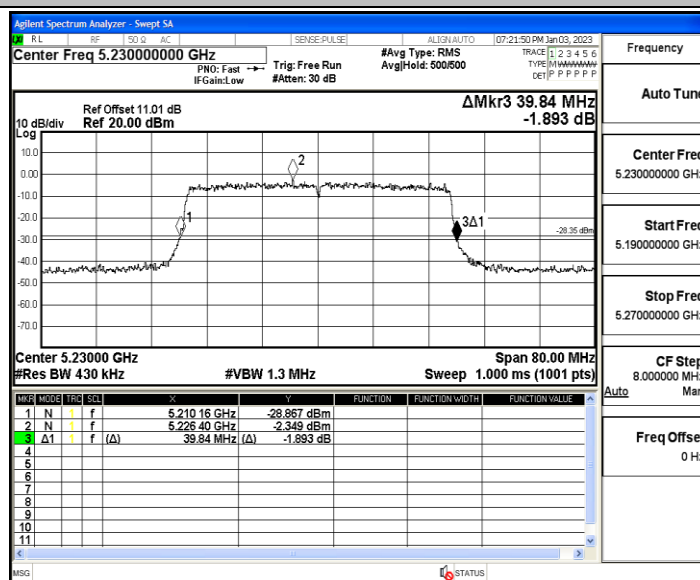
11AX40MIMO_Ant2_5190



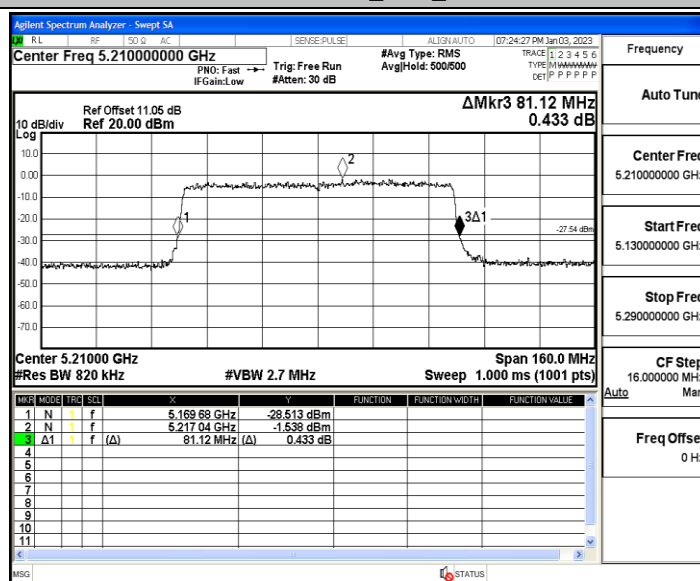
11AX40MIMO_Ant1_5230



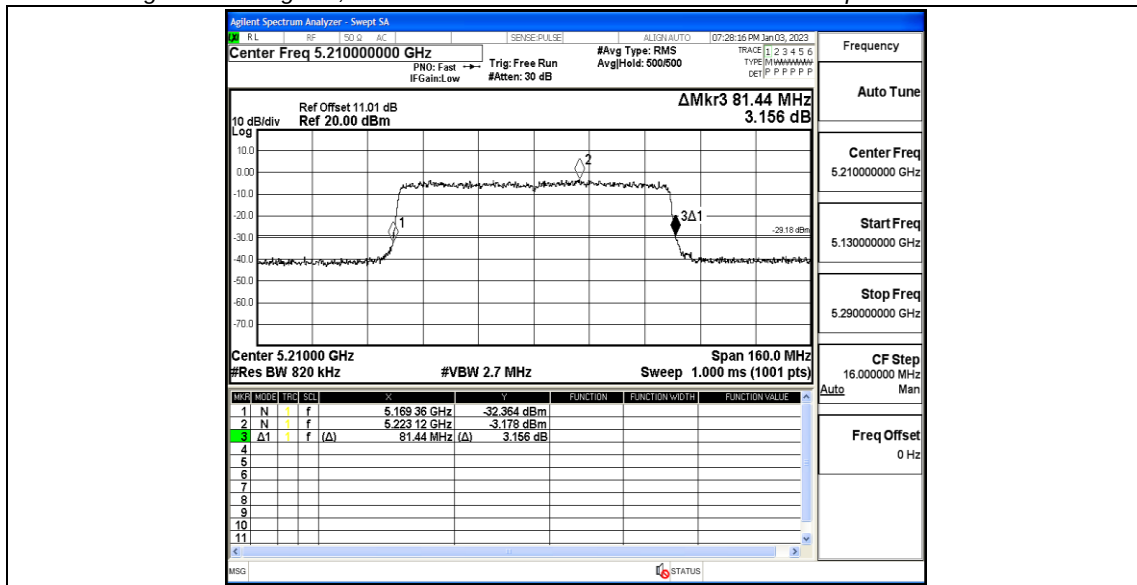
11AX40MIMO_Ant2_5230



11AX80MIMO_Ant1_5210



11AX80MIMO_Ant2_5210



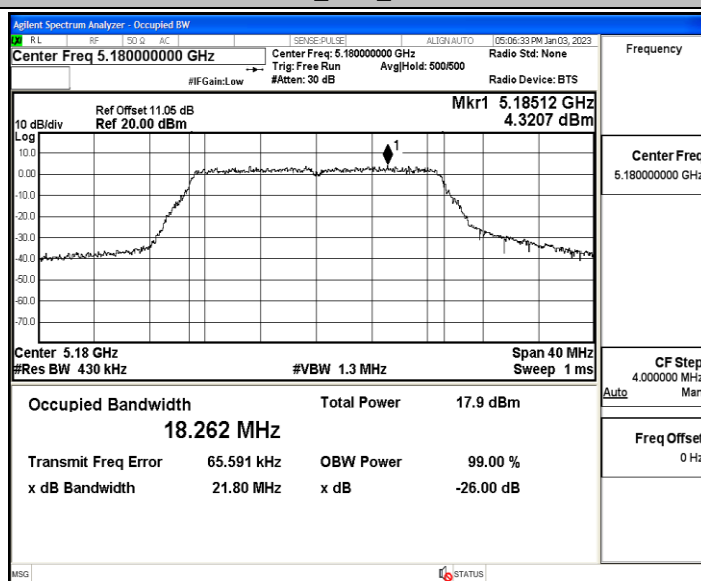
Appendix A2: Occupied channel bandwidth

Test Result

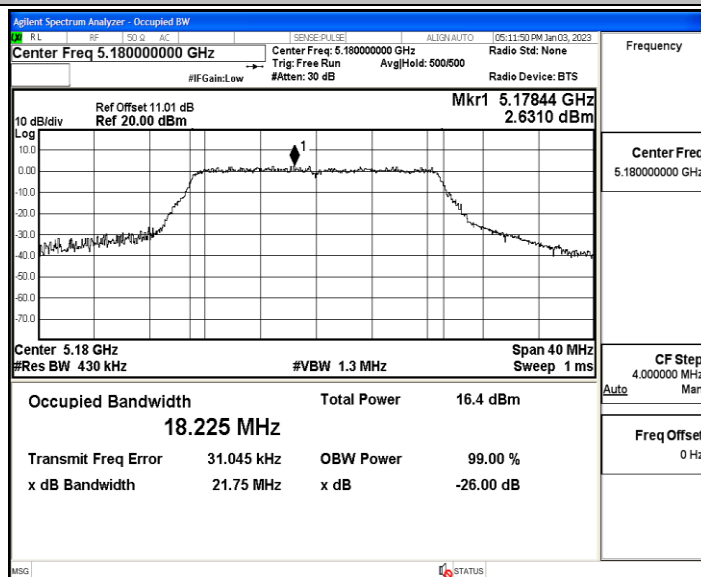
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.262	5170.9346	5189.1966	---	---
	Ant2	5180	18.225	5170.9186	5189.1436	---	---
	Ant1	5200	18.252	5190.9437	5209.1957	---	---
	Ant2	5200	18.330	5190.8719	5209.2019	---	---
	Ant1	5240	18.231	5230.9078	5249.1388	---	---
	Ant2	5240	18.336	5230.8645	5249.2005	---	---
11N20MIMO	Ant1	5180	18.149	5170.9690	5189.1180	---	---
	Ant2	5180	18.198	5170.9381	5189.1361	---	---
	Ant1	5200	18.237	5190.9540	5209.1910	---	---
	Ant2	5200	18.309	5190.8741	5209.1831	---	---
	Ant1	5240	18.239	5230.9078	5249.1468	---	---
	Ant2	5240	18.205	5230.9179	5249.1229	---	---
11N40MIMO	Ant1	5190	36.512	5171.8720	5208.3840	---	---
	Ant2	5190	36.521	5171.7978	5208.3188	---	---
	Ant1	5230	36.487	5211.8598	5248.3468	---	---
	Ant2	5230	36.464	5211.8817	5248.3457	---	---
11AC20MIMO	Ant1	5180	18.333	5170.8628	5189.1958	---	---
	Ant2	5180	18.348	5170.8569	5189.2049	---	---
	Ant1	5200	18.331	5190.8275	5209.1585	---	---
	Ant2	5200	18.379	5190.7975	5209.1765	---	---
	Ant1	5240	18.322	5230.8007	5249.1227	---	---
	Ant2	5240	18.392	5230.7694	5249.1614	---	---
11AC40MIMO	Ant1	5190	36.818	5171.6190	5208.4370	---	---
	Ant2	5190	36.810	5171.6027	5208.4127	---	---
	Ant1	5230	36.704	5211.6899	5248.3939	---	---
	Ant2	5230	36.722	5211.6716	5248.3936	---	---
11AC80MIMO	Ant1	5210	76.144	5172.1616	5248.3056	---	---
	Ant2	5210	76.071	5172.2274	5248.2984	---	---
11AX20MIMO	Ant1	5180	19.144	5170.4578	5189.6018	---	---
	Ant2	5180	19.143	5170.4808	5189.6238	---	---
	Ant1	5200	19.127	5190.4621	5209.5891	---	---
	Ant2	5200	19.202	5190.4375	5209.6395	---	---
	Ant1	5240	19.195	5230.4314	5249.6264	---	---
	Ant2	5240	19.275	5230.3852	5249.6602	---	---
11AX40MIMO	Ant1	5190	37.647	5171.2667	5208.9137	---	---
	Ant2	5190	37.610	5171.2265	5208.8365	---	---
	Ant1	5230	37.598	5211.2857	5248.8837	---	---
	Ant2	5230	37.631	5211.2559	5248.8869	---	---
11AX80MIMO	Ant1	5210	77.232	5171.6808	5248.9128	---	---
	Ant2	5210	77.136	5171.5456	5248.6816	---	---

Test Graphs

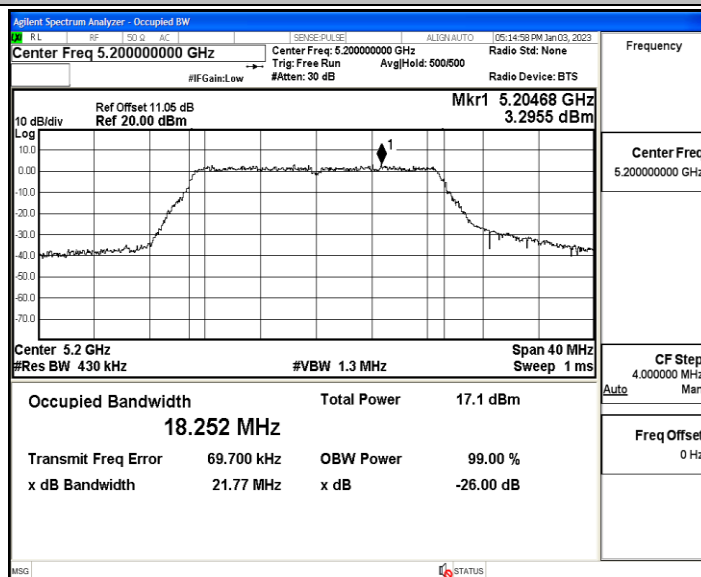
11A_Ant1_5180



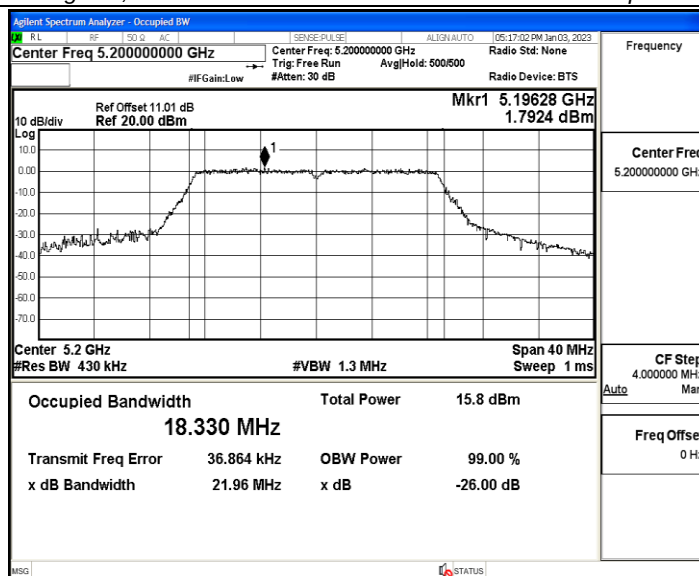
11A_Ant2_5180



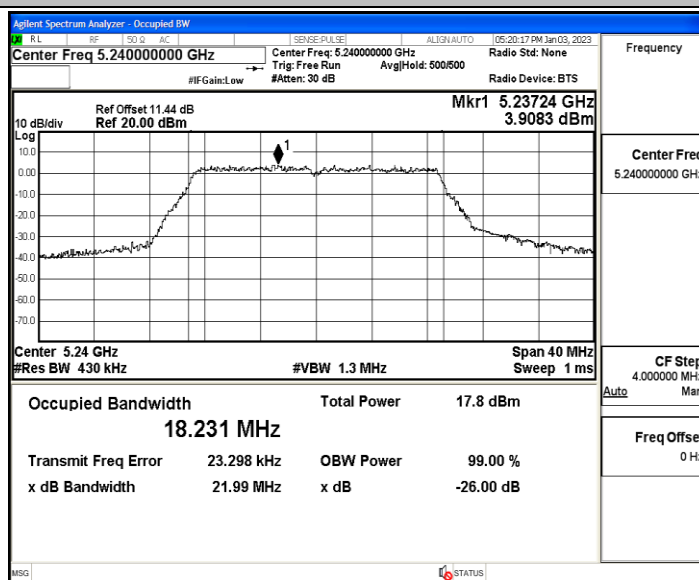
11A_Ant1_5200



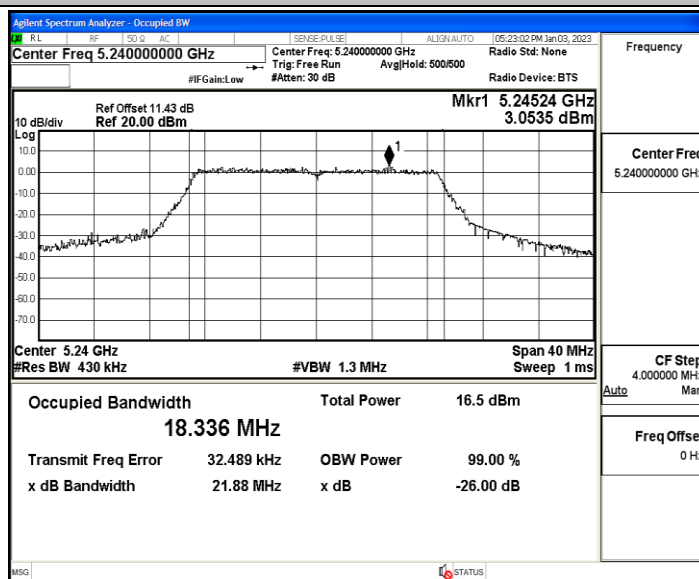
11A_Ant2_5200



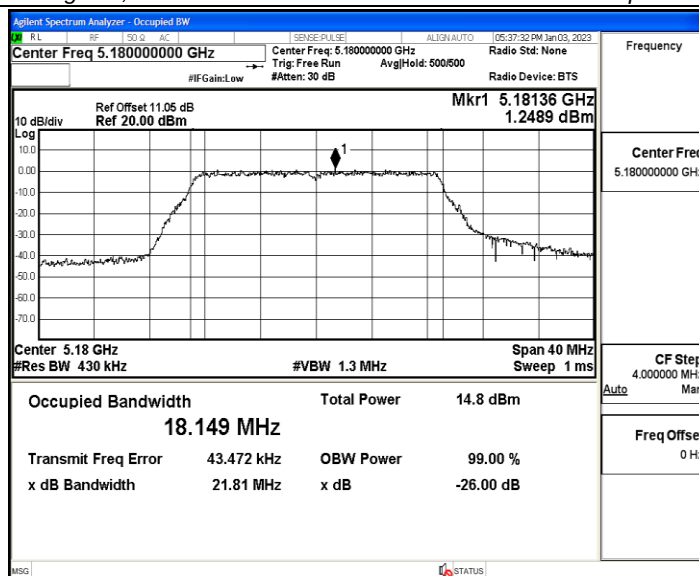
11A_Ant1_5240



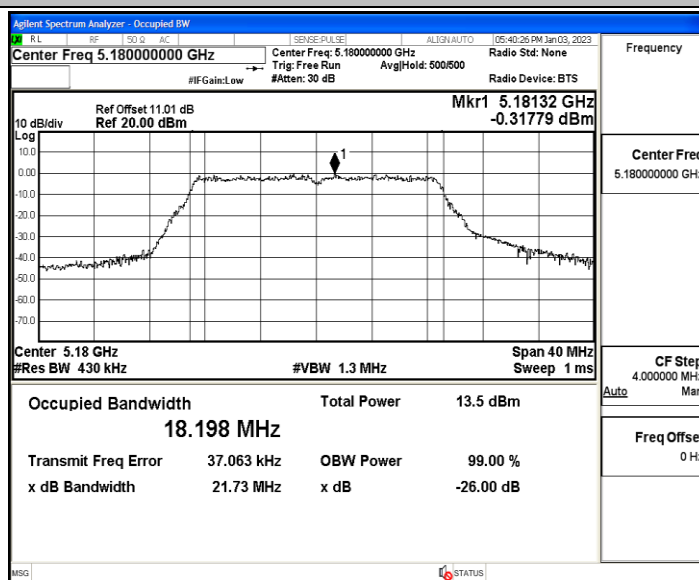
11A_Ant2_5240



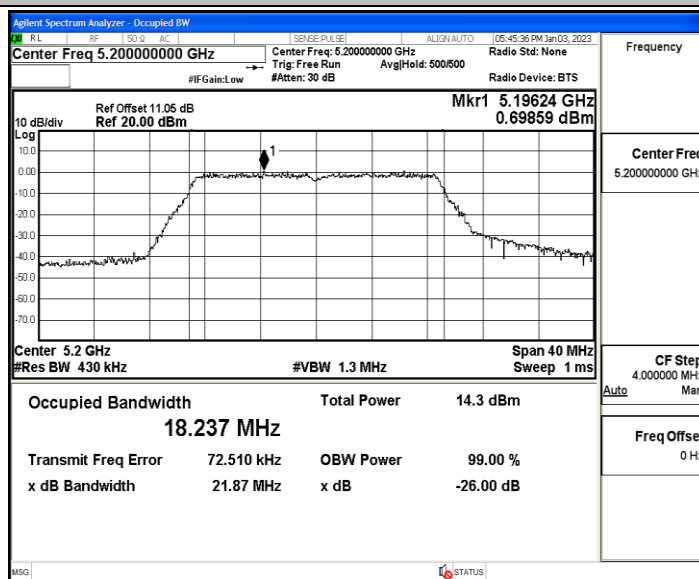
11N20MIMO_Ant1_5180



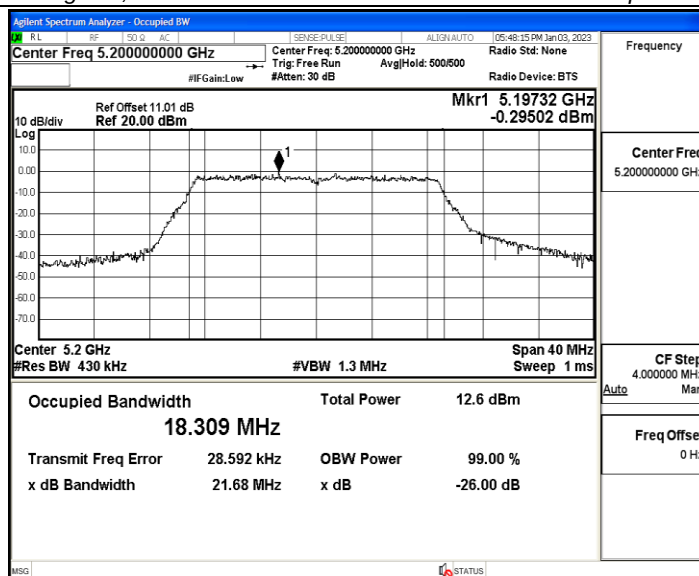
11N20MIMO_Ant2_5180



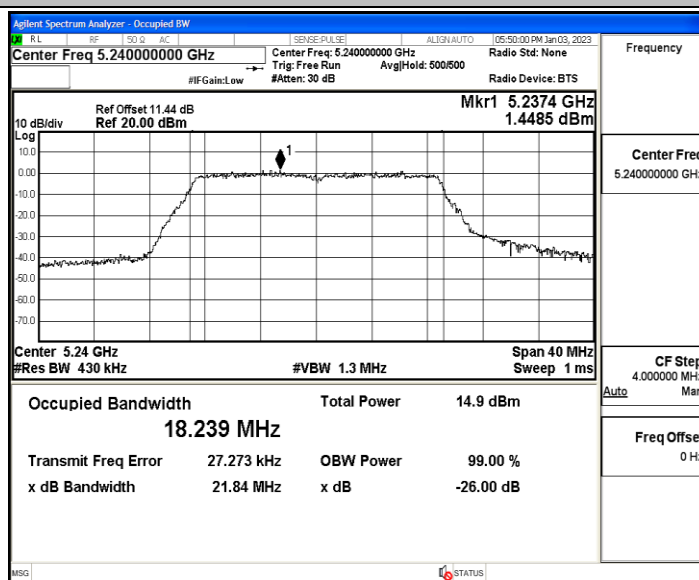
11N20MIMO_Ant1_5200



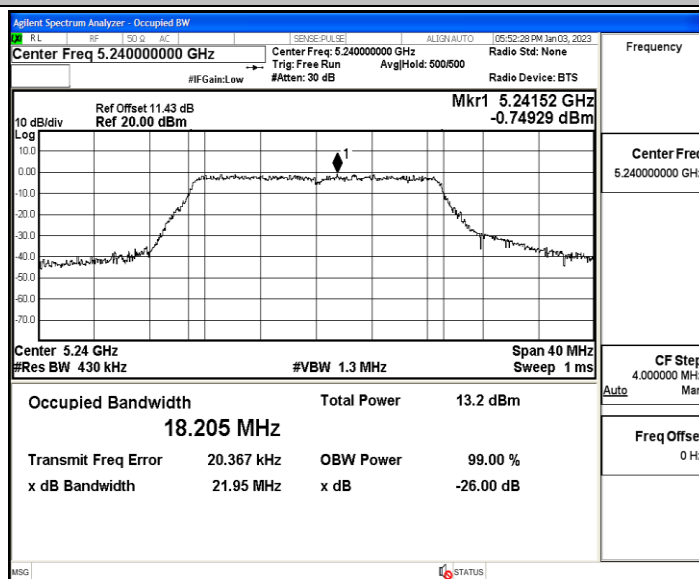
11N20MIMO_Ant2_5200



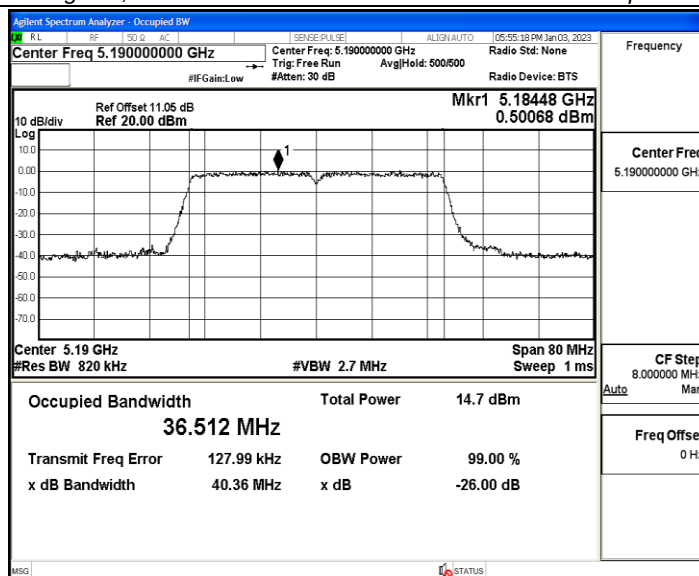
11N20MIMO_Ant1_5240



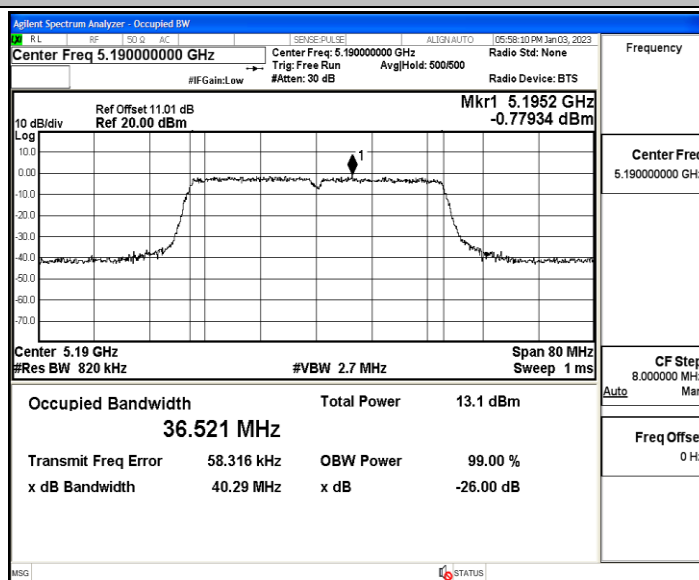
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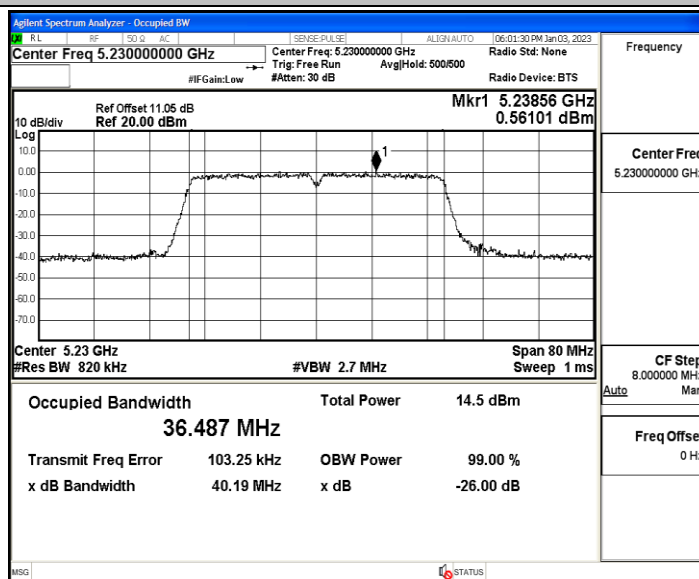
11N40MIMO_Ant1_5190



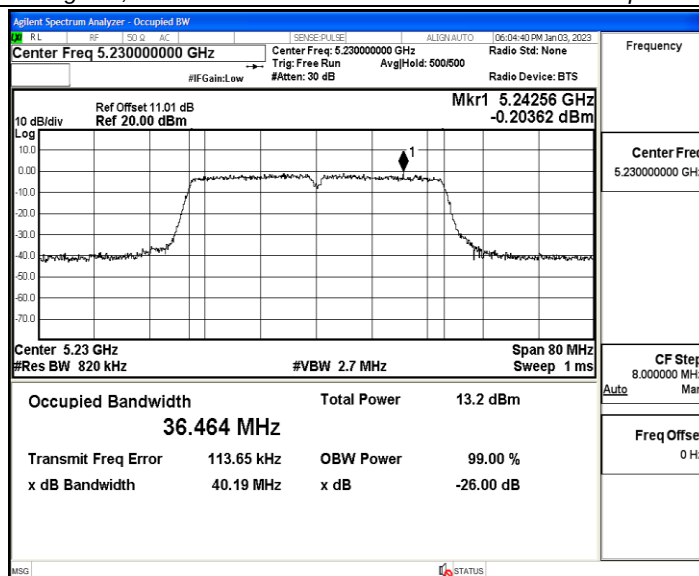
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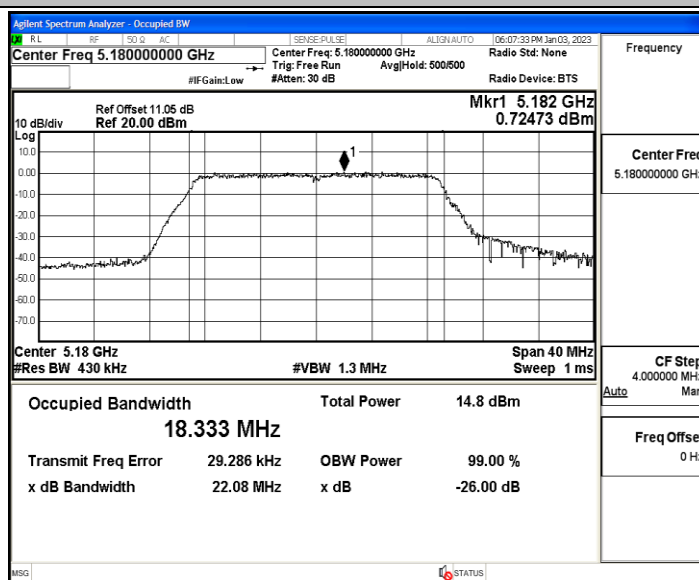
11N40MIMO_Ant1_5230



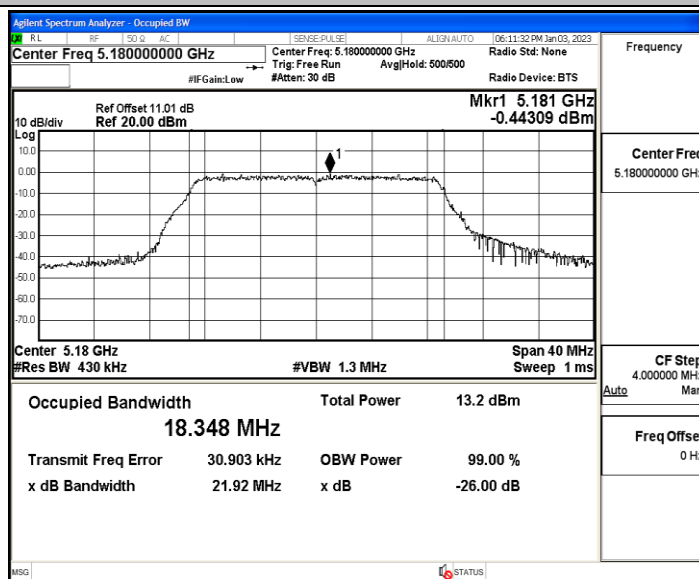
11N40MIMO_Ant2_5230



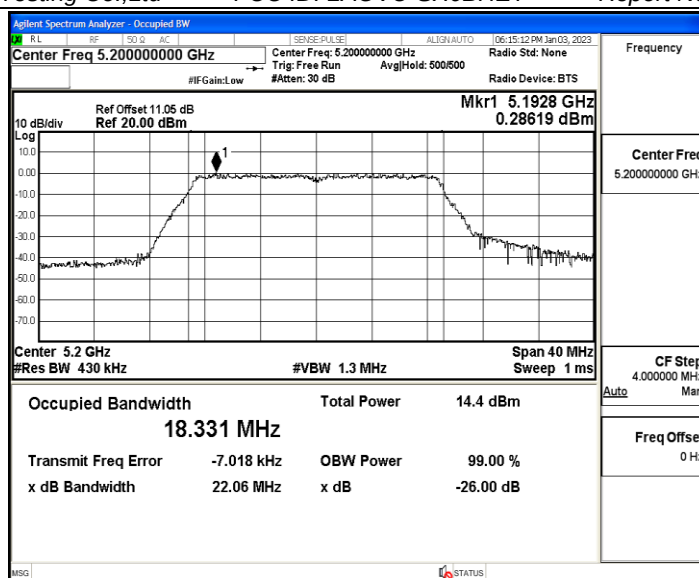
11AC20MIMO_Ant1_5180



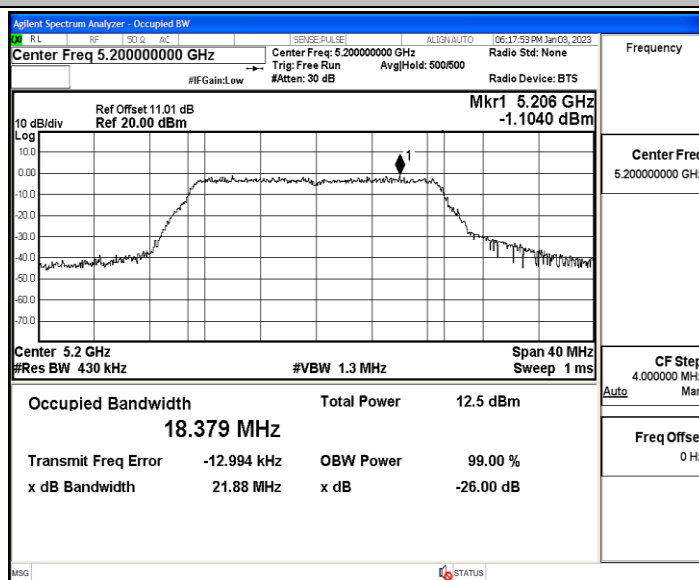
11AC20MIMO_Ant2_5180



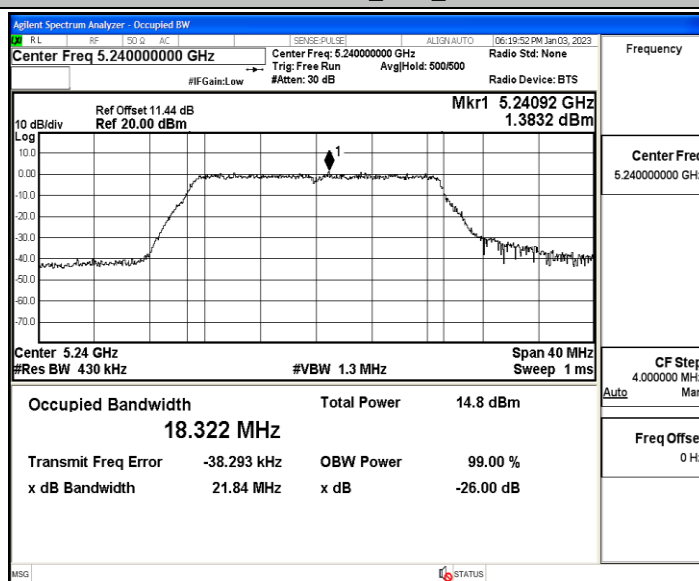
11AC20MIMO_Ant1_5200



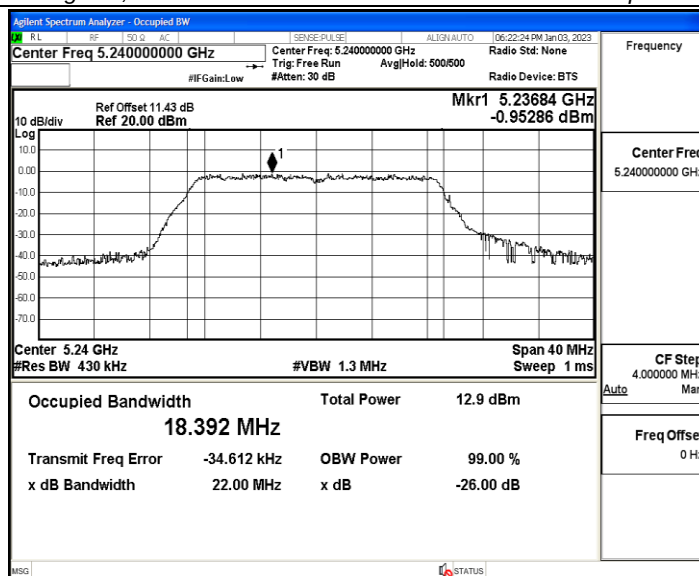
11AC20MIMO_Ant2_5200



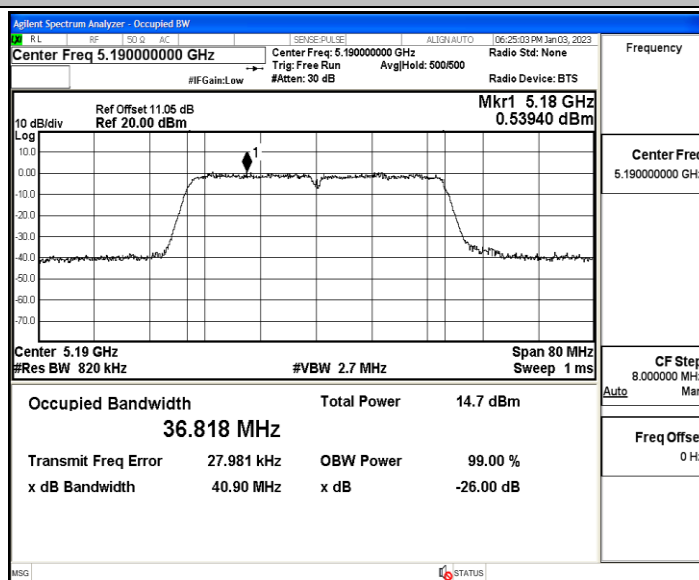
11AC20MIMO_Ant1_5240



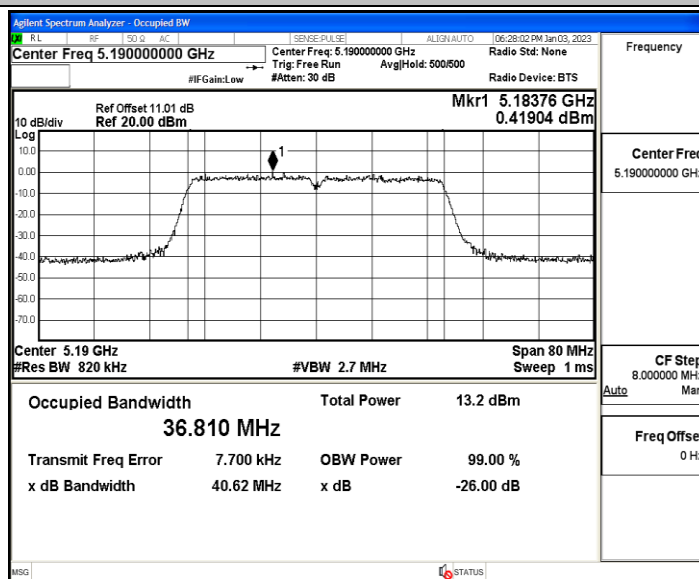
11AC20MIMO_Ant2_5240



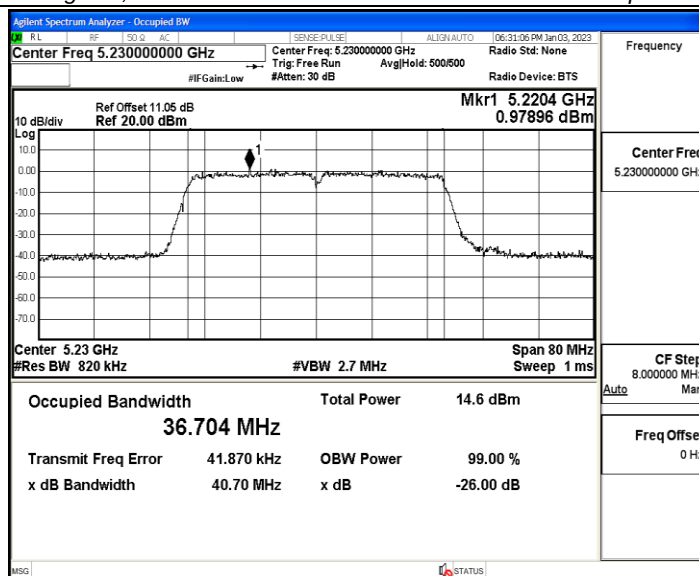
11AC40MIMO_Ant1_5190



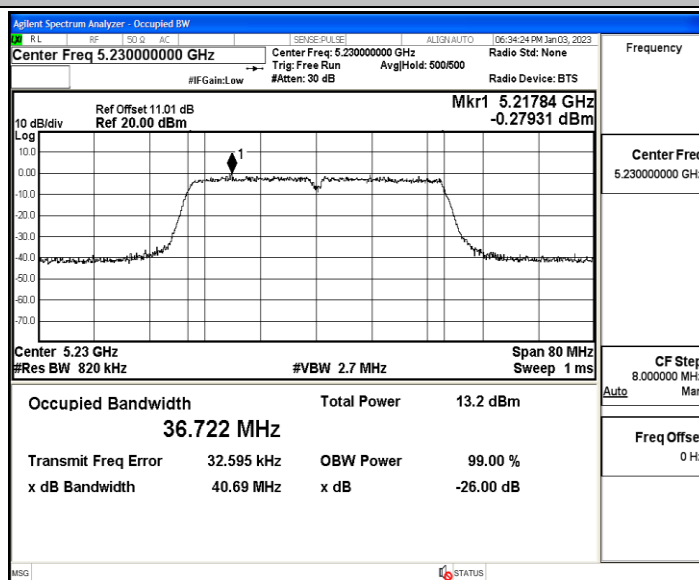
11AC40MIMO_Ant2_5190



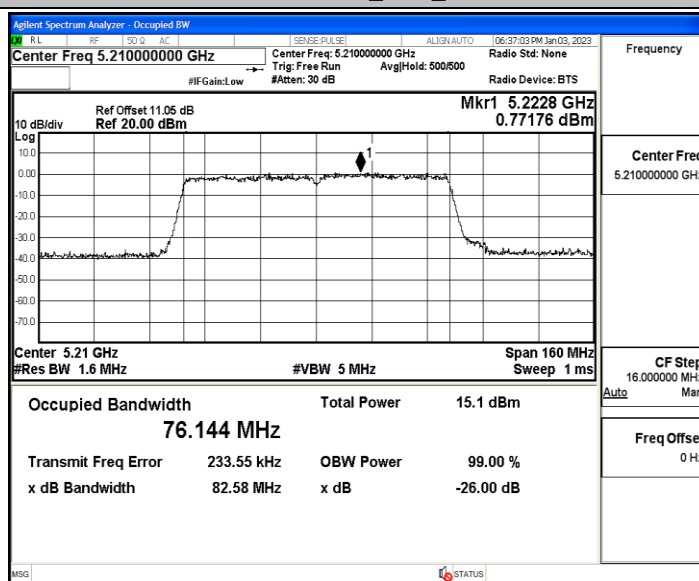
11AC40MIMO_Ant1_5230



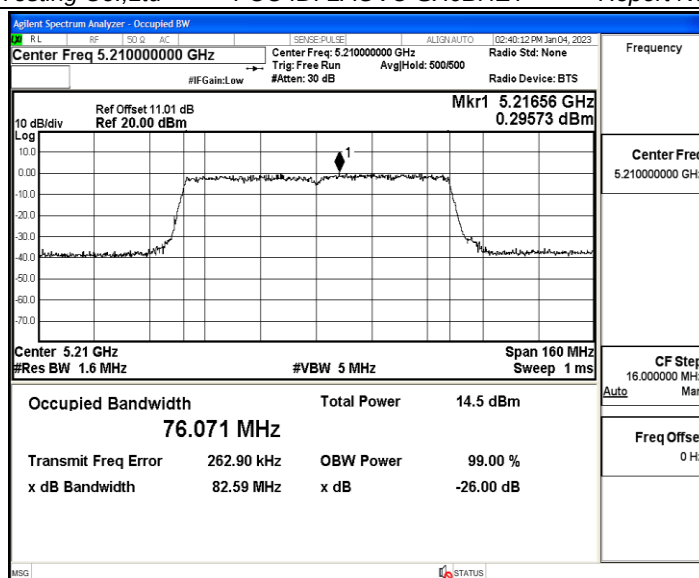
11AC40MIMO_Ant2_5230



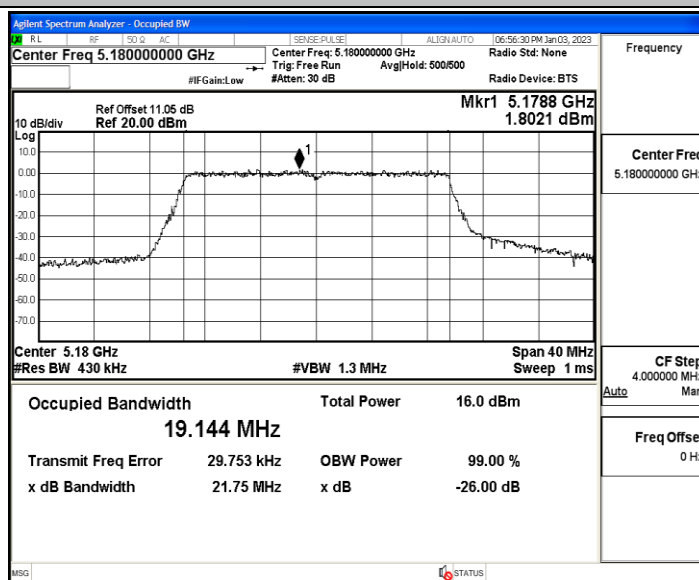
11AC80MIMO_Ant1_5210



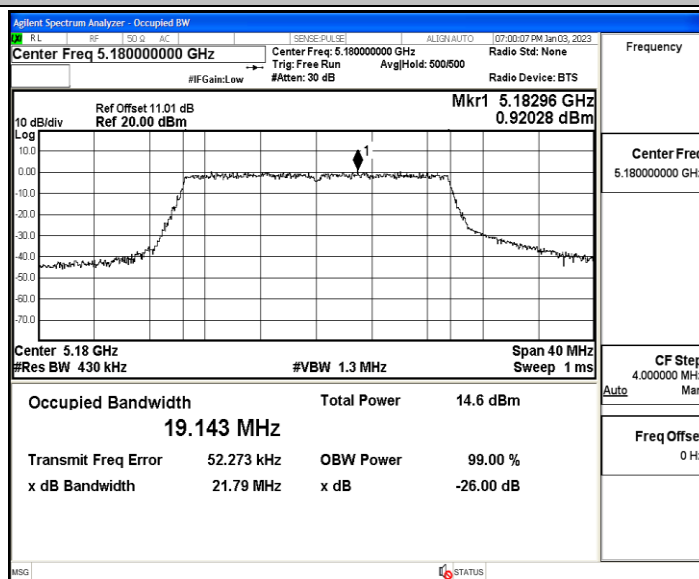
11AC80MIMO_Ant2_5210



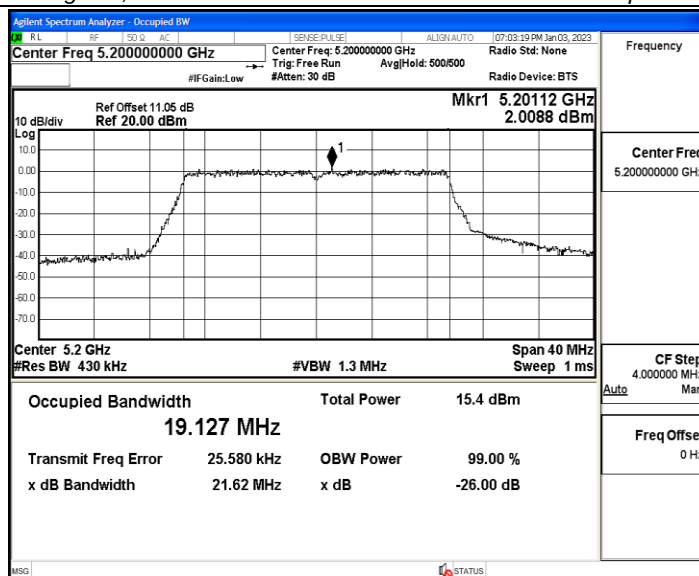
11AX20MIMO_Ant1_5180



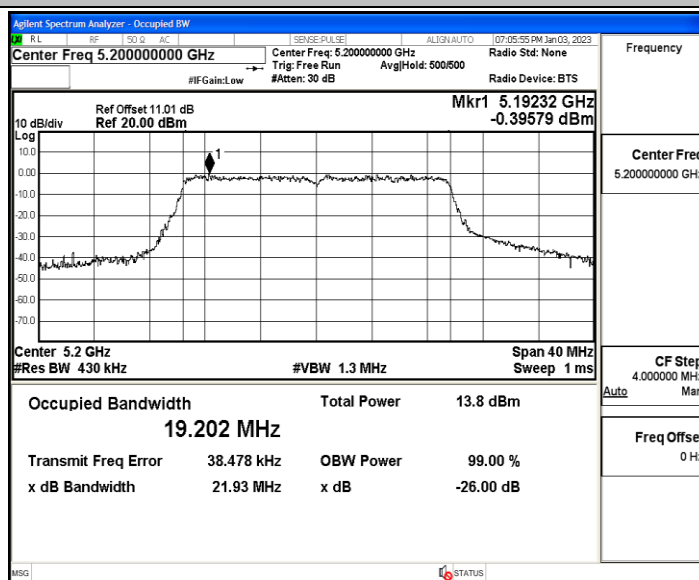
11AX20MIMO_Ant2_5180



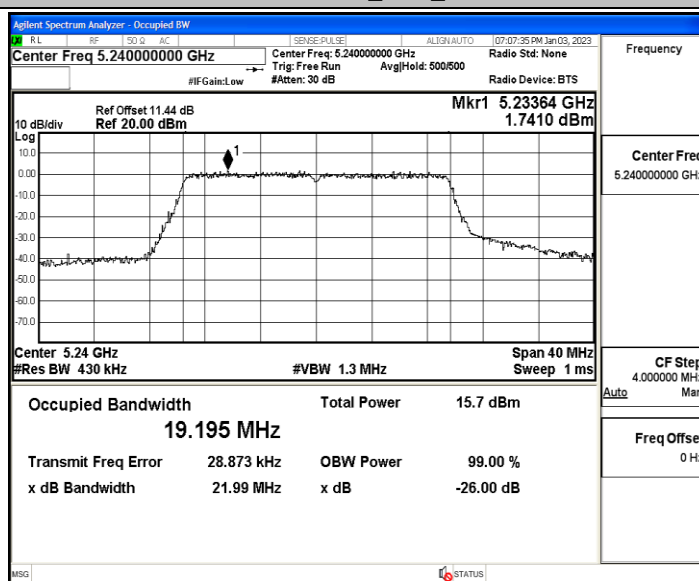
11AX20MIMO_Ant1_5200



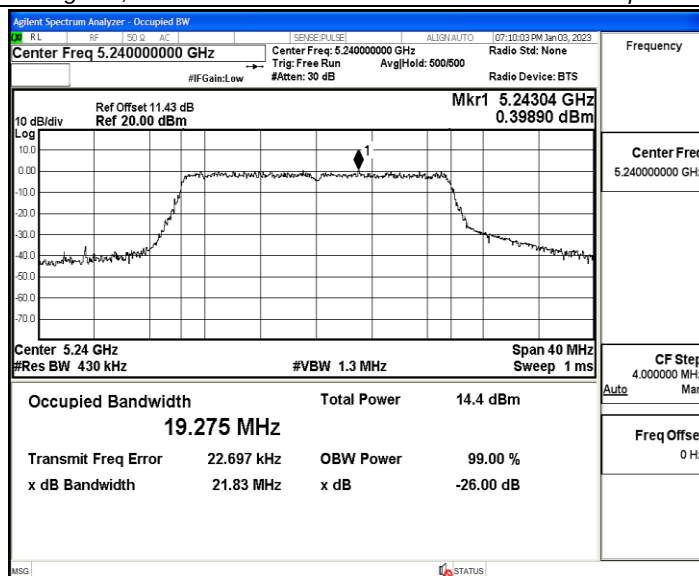
11AX20MIMO_Ant2_5200



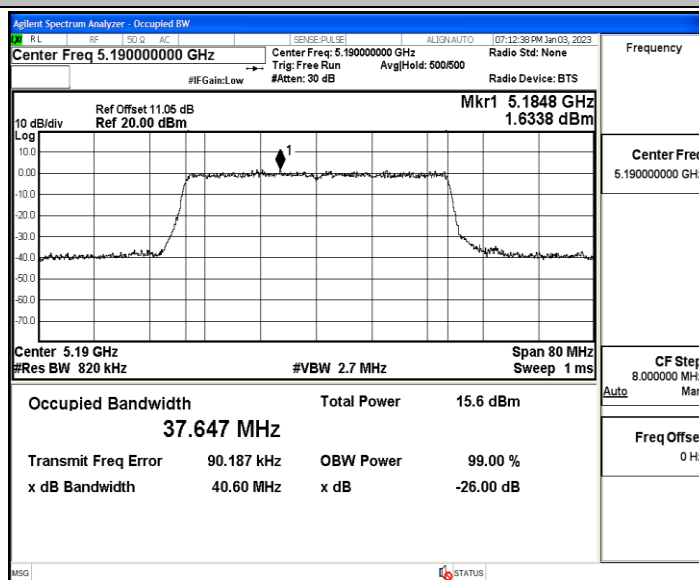
11AX20MIMO_Ant1_5240



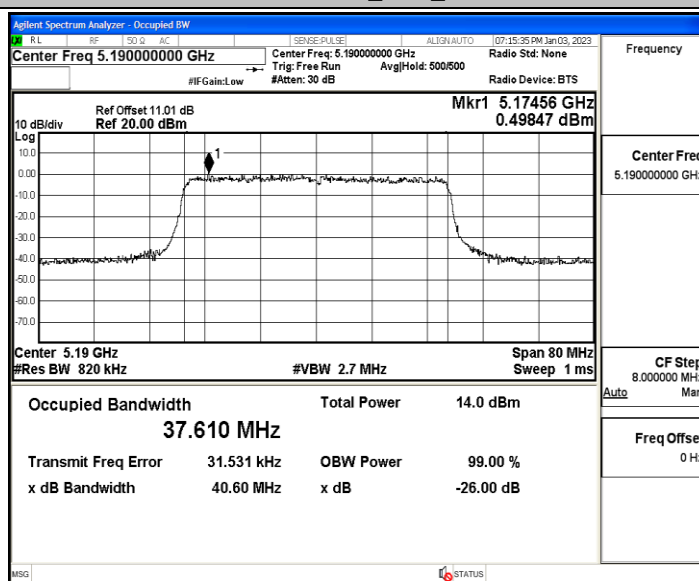
11AX20MIMO_Ant2_5240



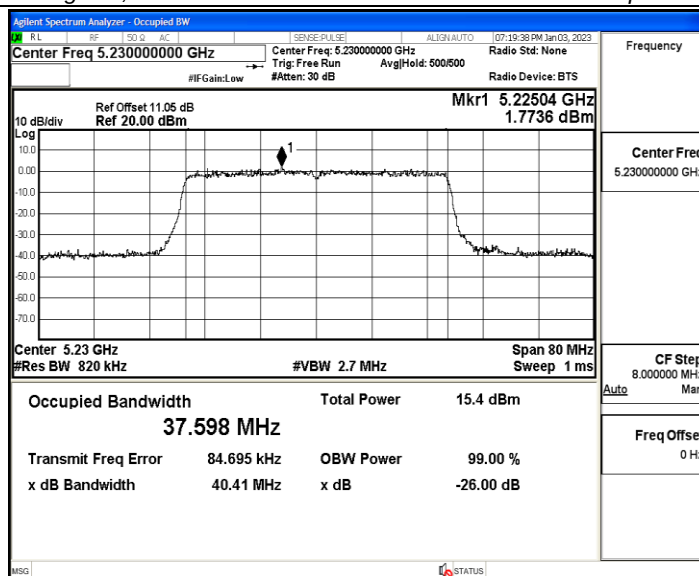
11AX40MIMO_Ant1_5190



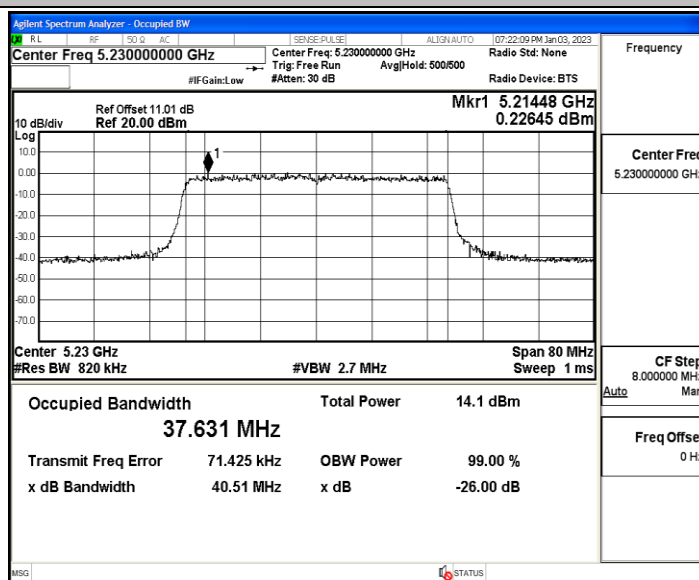
11AX40MIMO_Ant2_5190



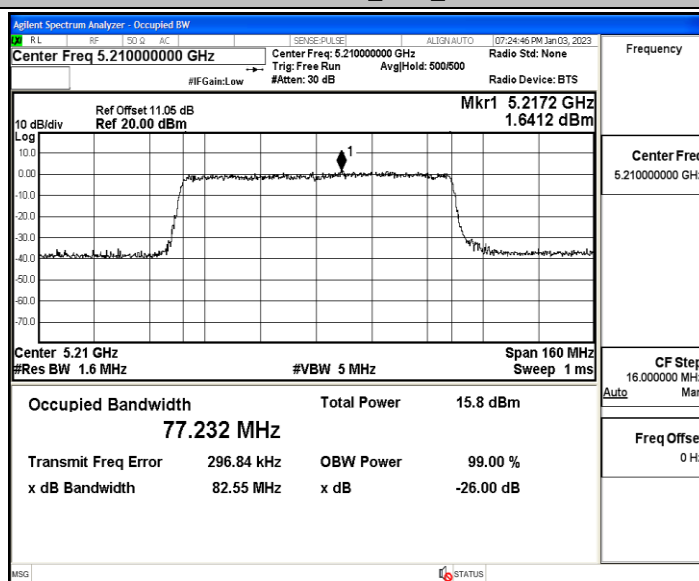
11AX40MIMO_Ant1_5230



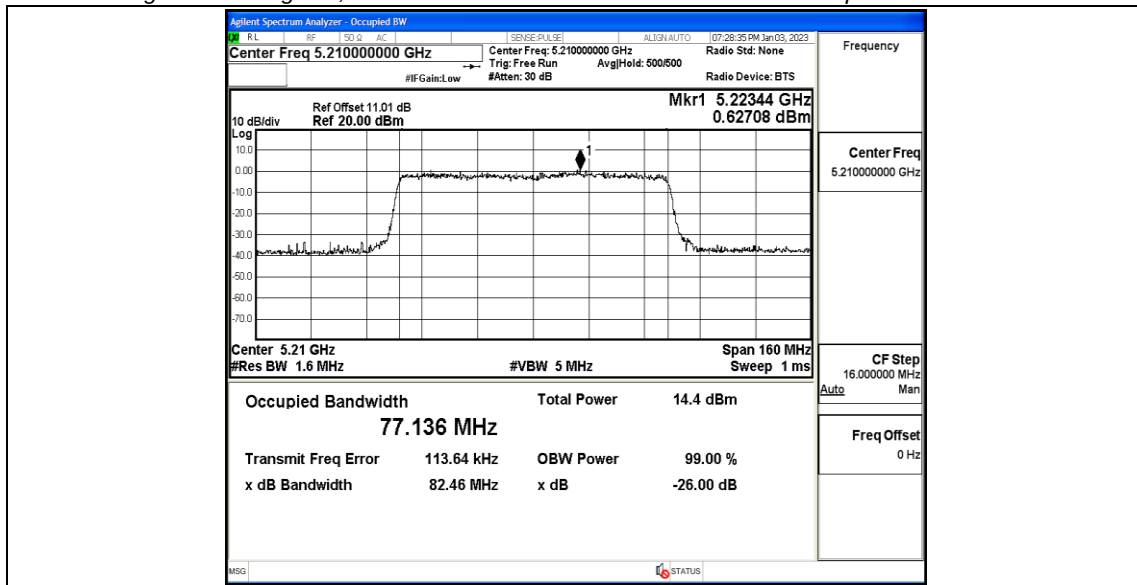
11AX40MIMO_Ant2_5230



11AX80MIMO_Ant1_5210



11AX80MIMO_Ant2_5210



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.60	≤23.98	PASS
	Ant2	5180	9.25	≤23.98	PASS
	Ant1	5200	9.69	≤23.98	PASS
	Ant2	5200	8.52	≤23.98	PASS
	Ant1	5240	10.67	≤23.98	PASS
	Ant2	5240	9.24	≤23.98	PASS
11N20MIMO	Ant1	5180	7.65	≤23.98	PASS
	Ant2	5180	6.23	≤23.98	PASS
	total	5180	10.01	≤22.54	PASS
	Ant1	5200	7.01	≤23.98	PASS
	Ant2	5200	5.35	≤23.98	PASS
	total	5200	9.27	≤22.54	PASS
	Ant1	5240	7.68	≤23.98	PASS
	Ant2	5240	5.88	≤23.98	PASS
	total	5240	9.88	≤22.54	PASS
11N40MIMO	Ant1	5190	7.13	≤23.98	PASS
	Ant2	5190	5.66	≤23.98	PASS
	total	5190	9.47	≤22.54	PASS
	Ant1	5230	6.88	≤23.98	PASS
	Ant2	5230	5.54	≤23.98	PASS
	total	5230	9.27	≤22.54	PASS
11AC20MIMO	Ant1	5180	7.51	≤23.98	PASS
	Ant2	5180	5.94	≤23.98	PASS
	total	5180	9.81	≤22.54	PASS
	Ant1	5200	7.16	≤23.98	PASS
	Ant2	5200	5.17	≤23.98	PASS
	total	5200	9.29	≤22.54	PASS
	Ant1	5240	7.49	≤23.98	PASS
	Ant2	5240	5.68	≤23.98	PASS
	total	5240	9.69	≤22.54	PASS
11AC40MIMO	Ant1	5190	7.09	≤23.98	PASS
	Ant2	5190	5.69	≤23.98	PASS
	total	5190	9.46	≤22.54	PASS
	Ant1	5230	6.84	≤23.98	PASS
	Ant2	5230	5.52	≤23.98	PASS
	total	5230	9.24	≤22.54	PASS
11AC80MIMO	Ant1	5210	7.29	≤23.98	PASS
	Ant2	5210	6.68	≤23.98	PASS
	total	5210	10.01	≤22.54	PASS
11AX20MIMO	Ant1	5180	8.23	≤23.98	PASS
	Ant2	5180	6.80	≤23.98	PASS

	total	5180	10.58	≤ 22.54	PASS
	Ant1	5200	7.44	≤ 23.98	PASS
	Ant2	5200	5.99	≤ 23.98	PASS
	total	5200	9.79	≤ 22.54	PASS
	Ant1	5240	7.88	≤ 23.98	PASS
	Ant2	5240	6.53	≤ 23.98	PASS
	total	5240	10.27	≤ 22.54	PASS
11AX40MIMO	Ant1	5190	7.91	≤ 23.98	PASS
	Ant2	5190	5.81	≤ 23.98	PASS
	total	5190	10.00	≤ 22.54	PASS
	Ant1	5230	7.30	≤ 23.98	PASS
	Ant2	5230	5.98	≤ 23.98	PASS
	total	5230	9.70	≤ 22.54	PASS
11AX80MIMO	Ant1	5210	7.64	≤ 23.98	PASS
	Ant2	5210	5.86	≤ 23.98	PASS
	total	5210	9.85	≤ 22.54	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	7.8	≤11.00	PASS
	Ant2	5180	6.57	≤11.00	PASS
	Ant1	5200	6.94	≤11.00	PASS
	Ant2	5200	5.5	≤11.00	PASS
	Ant1	5240	7.03	≤11.00	PASS
	Ant2	5240	5.92	≤11.00	PASS
11N20MIMO	Ant1	5180	5.55	≤11.00	PASS
	Ant2	5180	3.01	≤11.00	PASS
	total	5180	7.47	≤9.56	PASS
	Ant1	5200	4.15	≤11.00	PASS
	Ant2	5200	1.68	≤11.00	PASS
	total	5200	6.10	≤9.56	PASS
	Ant1	5240	5.18	≤11.00	PASS
	Ant2	5240	3.24	≤11.00	PASS
	total	5240	7.33	≤9.56	PASS
11N40MIMO	Ant1	5190	2.27	≤11.00	PASS
	Ant2	5190	0.94	≤11.00	PASS
	total	5190	4.67	≤9.56	PASS
	Ant1	5230	1.14	≤11.00	PASS
	Ant2	5230	0.94	≤11.00	PASS
	total	5230	4.05	≤9.56	PASS
11AC20MIMO	Ant1	5180	3.69	≤11.00	PASS
	Ant2	5180	2.45	≤11.00	PASS
	total	5180	6.12	≤9.56	PASS
	Ant1	5200	3.85	≤11.00	PASS
	Ant2	5200	1.92	≤11.00	PASS
	total	5200	6.00	≤9.56	PASS
	Ant1	5240	3.78	≤11.00	PASS
	Ant2	5240	1.53	≤11.00	PASS
	total	5240	5.81	≤9.56	PASS
11AC40MIMO	Ant1	5190	2.57	≤11.00	PASS
	Ant2	5190	2.13	≤11.00	PASS
	total	5190	5.37	≤9.56	PASS
	Ant1	5230	2.03	≤11.00	PASS
	Ant2	5230	1.05	≤11.00	PASS
	total	5230	4.58	≤9.56	PASS
11AC80MIMO	Ant1	5210	0.02	≤11.00	PASS
	Ant2	5210	-1.14	≤11.00	PASS
	total	5210	2.49	≤9.56	PASS
11AX20MIMO	Ant1	5180	6.09	≤11.00	PASS
	Ant2	5180	5.44	≤11.00	PASS

	total	5180	8.79	≤ 9.56	PASS
	Ant1	5200	5.65	≤ 11.00	PASS
	Ant2	5200	4.07	≤ 11.00	PASS
	total	5200	7.94	≤ 9.56	PASS
	Ant1	5240	5.81	≤ 11.00	PASS
	Ant2	5240	4.55	≤ 11.00	PASS
	total	5240	8.24	≤ 9.56	PASS
11AX40MIMO	Ant1	5190	2.86	≤ 11.00	PASS
	Ant2	5190	2.88	≤ 11.00	PASS
	total	5190	5.88	≤ 9.56	PASS
	Ant1	5230	3.8	≤ 11.00	PASS
	Ant2	5230	1.41	≤ 11.00	PASS
	total	5230	5.78	≤ 9.56	PASS
11AX80MIMO	Ant1	5210	1.2	≤ 11.00	PASS
	Ant2	5210	-1.6	≤ 11.00	PASS
	total	5210	3.03	≤ 9.56	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.